THE UNIVERSITY OF AUCKLAND
Cecil e-Learning

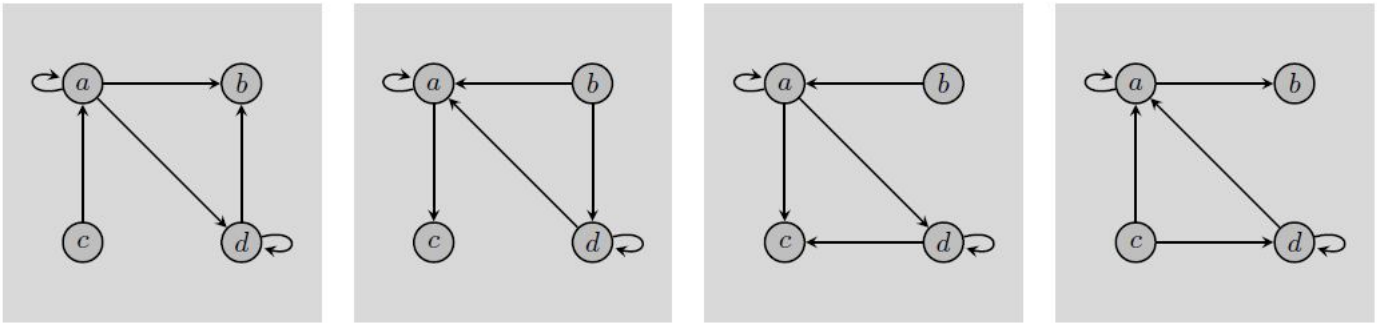
test eval

1 of 46

Refer to the following:

R	a	b	c	d
a	1	1	0	1
b	0	0	0	0
c	1	0	0	0
d	0	1	0	1

Which of the following diagrams represents the same situation as the above table?



(1) (2) (3) (4)

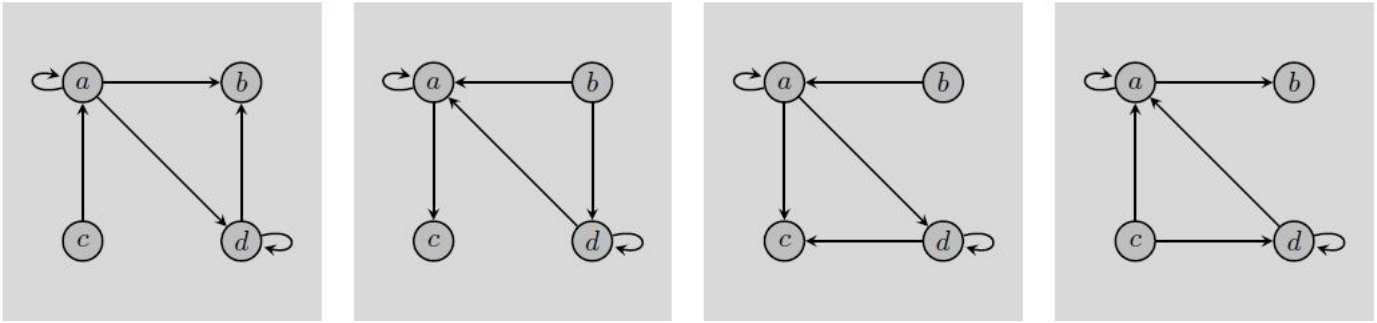
- (1)
- (2)
- (3)
- (4)

2 of 46

Refer to the following:

R	a	b	c	d
a	1	0	1	0
b	1	0	0	1
c	0	0	0	0
d	1	0	0	1

Which of the following diagrams represents the same situation as the above table?



(1) (2) (3) (4)

(1)
(2)
(3)
(4)

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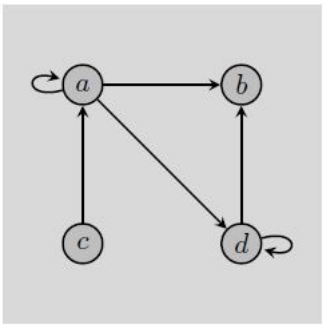
3 of 46

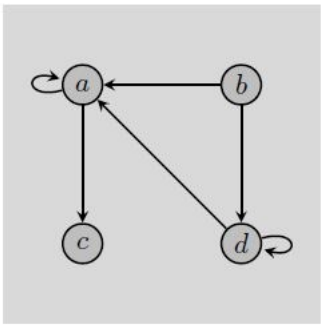
Refer to the following:

R	a	b	c	d
a	1	0	1	1
b	1	0	0	0
c	0	0	0	0
d	0	0	1	1

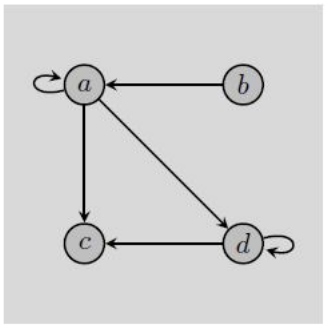
Which of the following diagrams represents the same situation as the above table?



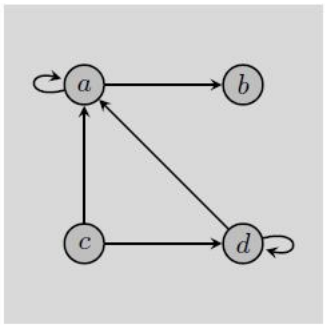
(1)



(2)



(3)



(4)

(1)
(2)
(3)
(4)

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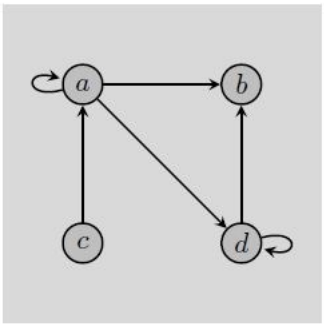
4 of 46

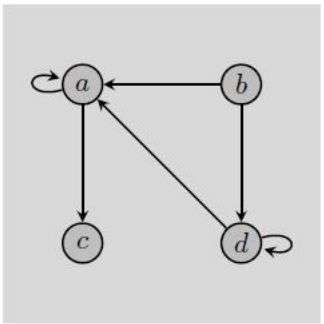
Refer to the following:

R	a	b	c	d
a	1	1	0	0
b	0	0	0	0
c	1	0	0	1
d	1	0	0	1

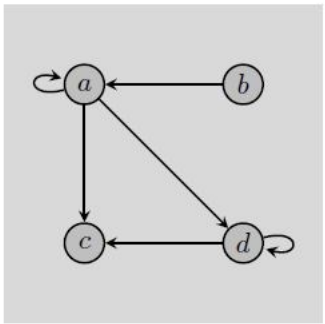
Which of the following diagrams represents the same situation as the above table?



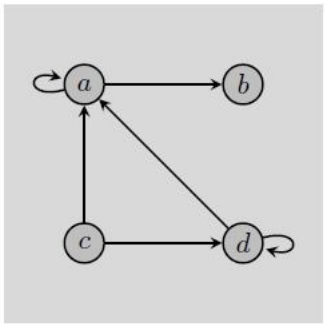
(1)



(2)



(3)



(4)

○(1)
○(2)
○(3)
○(4)

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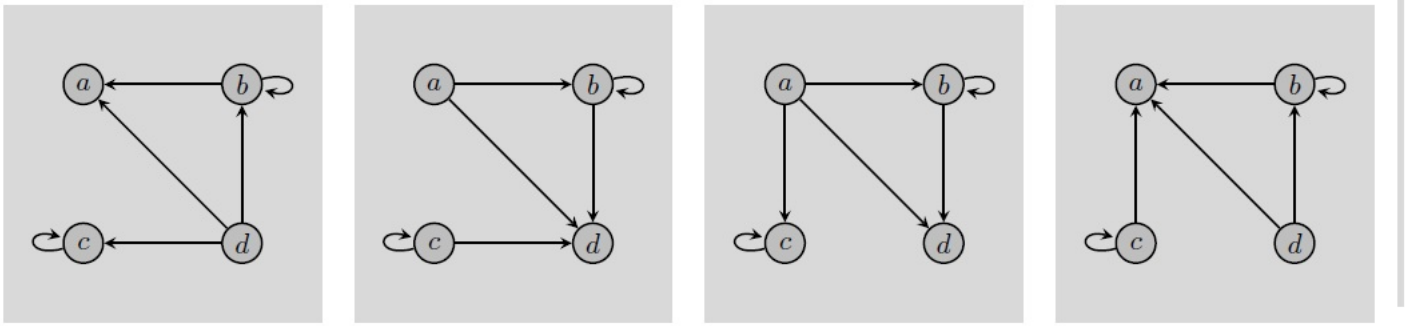
5 of 46

Refer to the following:

R	a	b	c	d
a	0	0	0	0
b	1	1	0	0
c	0	0	1	0
d	1	1	1	0

Which of the following diagrams represents the same situation as the above table?



(1) (2) (3) (4)

○(1)
○(2)
○(3)
○(4)

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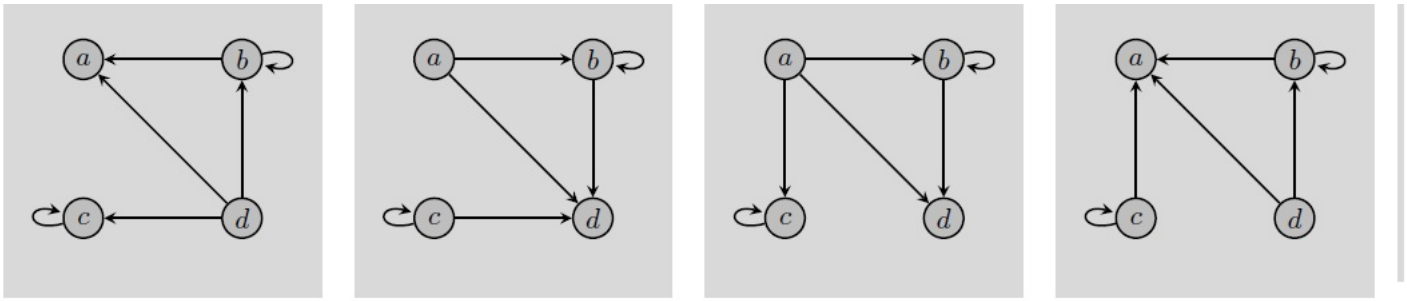
6 of 46

Refer to the following:

R	a	b	c	d
a	0	1	0	1
b	0	1	0	1
c	0	0	1	1
d	0	0	0	0

Which of the following diagrams represents the same situation as the above table?



(1)

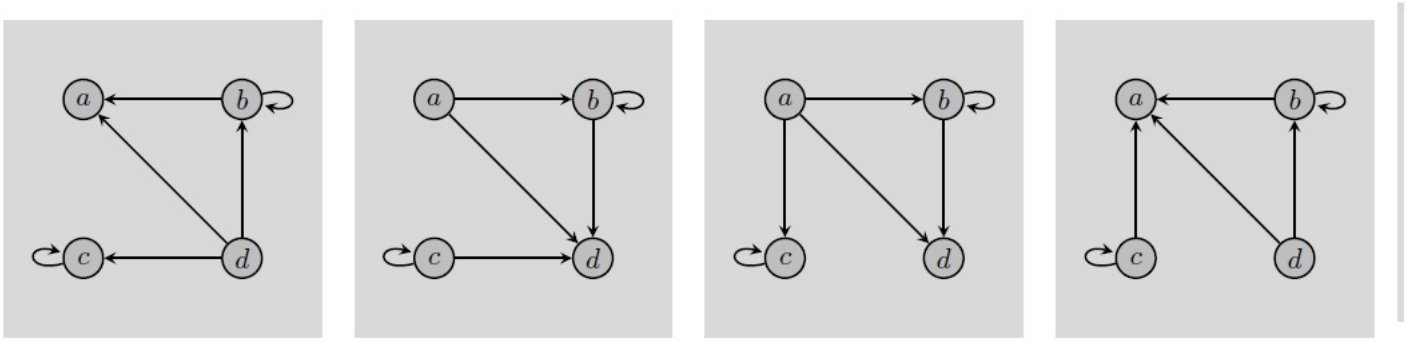
(2)
(3)
(4)

7 of 46

Refer to the following:

R	a	b	c	d
a	0	1	1	1
b	0	1	0	1
c	0	0	1	0
d	0	0	0	0

Which of the following diagrams represents the same situation as the above table?



(1) (2) (3) (4)

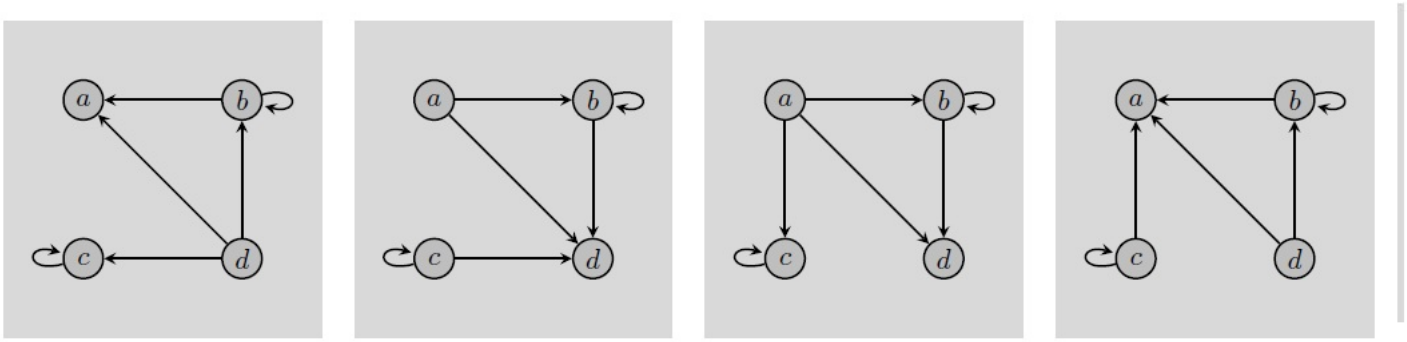
○ (1)
○ (2)
○ (3)
○ (4)

8 of 46

Refer to the following:

R	a	b	c	d
a	0	0	0	0
b	1	1	0	0
c	1	0	1	0
d	1	1	0	0

Which of the following diagrams represents the same situation as the above table?



(1) (2) (3) (4)

(1)
(2)
(3)
(4)

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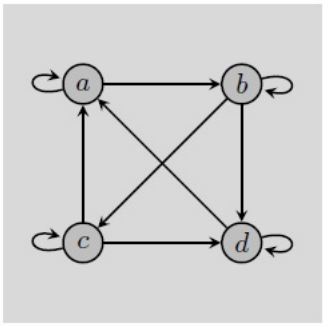
9 of 46

Refer to the following:

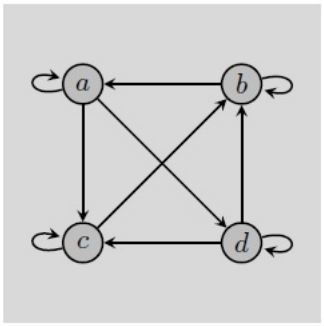
R	a	b	c	d
a	1	1	0	0
b	0	1	1	1
c	1	0	1	1
d	1	0	0	1

Which of the following diagrams represents the connectivity on the above table?

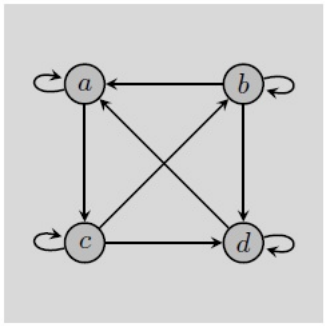
Which of the following diagrams represents the same situation as the above table?



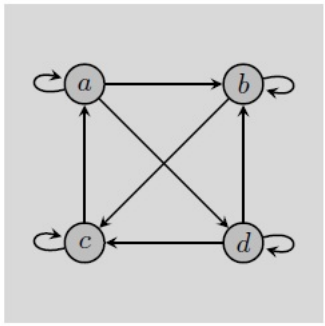
(1)



(2)



(3)



(4)

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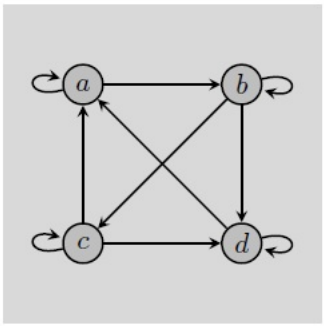
Refer to the following:

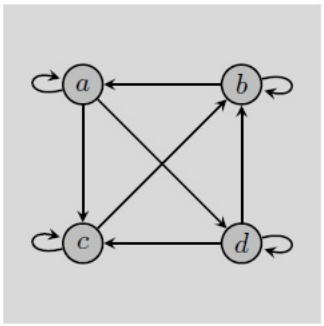
R	a	b	c	d
a	1	0	1	1
b	1	1	0	0
c	0	1	1	0
d	0	1	1	1

Which of the following diagrams represents the same situation as the above table?

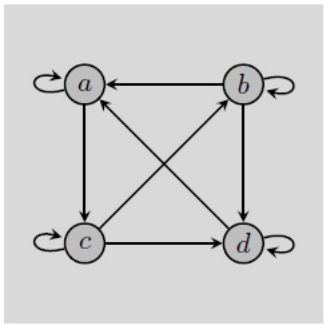
- (1)
- (2)
- (3)
- (4)



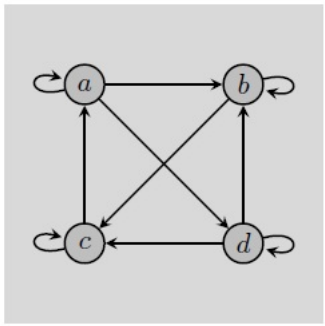
(1)



(2)



(3)



(4)

(1)
(2)
(3)
(4)

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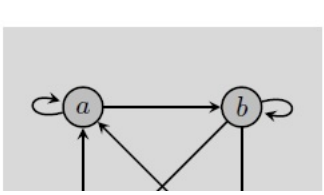
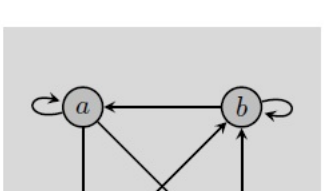
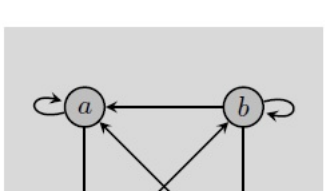
Refer to the following:

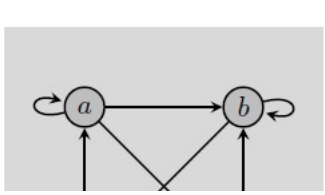
R	a	b	c	d
a	1	0	1	0
b	1	1	0	1
c	0	1	1	1
d	1	0	0	1

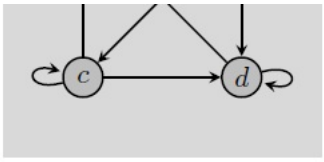
Which of the following diagrams represents the same situation as the above table?



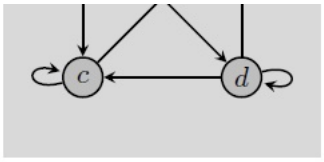




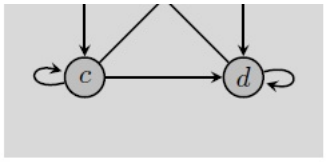




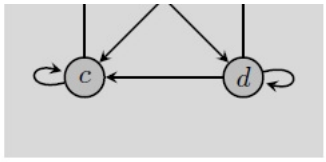
(1)



(2)



(3)



(4)

- (1)
- (2)
- (3)
- (4)

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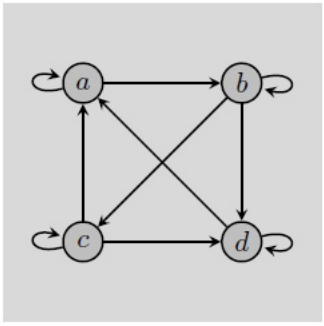
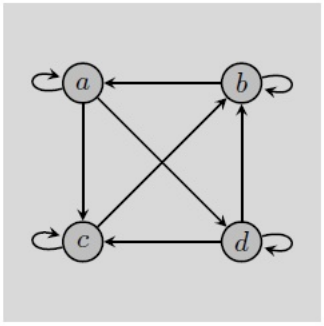
Refer to the following:

R	a	b	c	d
a	1	1	0	1
b	0	1	1	0
c	1	0	1	0
d	0	1	1	1

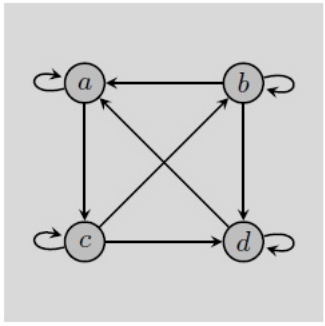
Which of the following diagrams represents the same situation as the above table?



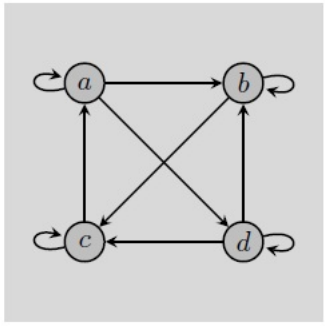
(1)



(2)



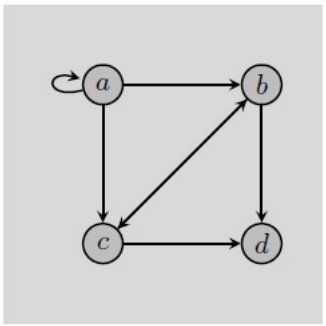
(3)



(4)

- (1)
- (2)
- (3)
- (4)

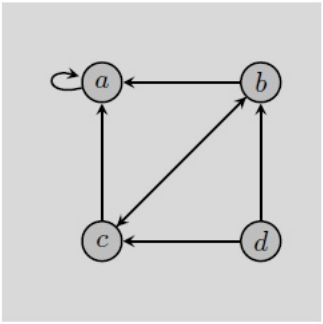
Refer to the following:



Which one of the following formulas (if any) is true in the situation represented by the above diagram?

- ∃y∀xRxy
- ∃x∀yRxy
- (∀x∃yRxy&~∃y∀xRxy)
- (∀y∃xRxy&~∃x∀yRxy)
- None of the above

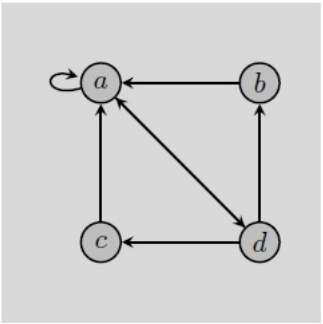
Refer to the following:



Which one of the following formulas (if any) is true in the situation represented by the above diagram?

- ∃y∀xRxy
- ∃x∀yRxy
- (∀x∃yRxy&~∃y∀xRxy)
- (∀y∃xRxy&~∃x∀yRxy)
- None of the above

Refer to the following:



Which one of the following formulas (if any) is true in the situation represented by the above diagram?

- ∃y∀xRxy
- ∃x∀yRxy
- (∀x∃yRxy&~∃y∀xRxy)
- (∀y∃xRxy&~∃x∀yRxy)
- None of the above

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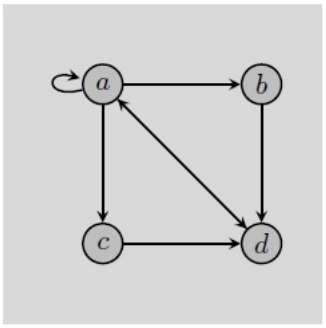
Refer to the following:



Which one of the following formulas (if any) is true in the situation represented by the above diagram?

- ∃y∀xRxy
- ∃x∀yRxy
- (∀x∃yRxy&~∃y∀xRxy)
- (∀y∃xRxy&~∃x∀yRxy)
- None of the above

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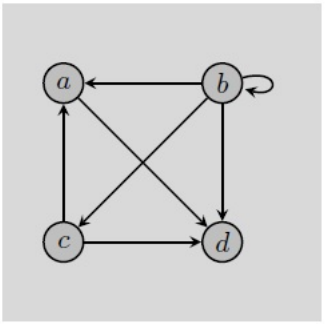
Refer to the following:



Which one of the following formulas (if any) is true in the situation represented by the above diagram?

- ∃y∀xRxy
- ∃x∀yRxy
- (∀x∃yRxy&~∃y∀xRxy)
- (∀y∃xRxy&~∃x∀yRxy)
- None of the above.

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Refer to the following:

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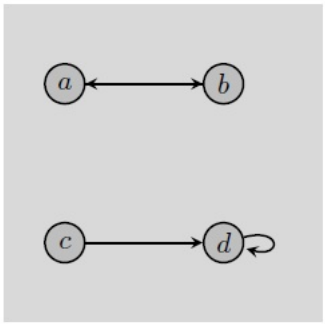
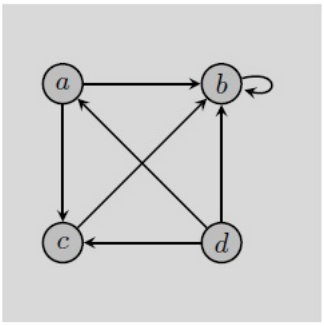
Refer to the following:





Which one of the following formulas (if any) is true in the situation represented by the above diagram?

- ∃y∀xRxy
- ∃x∀yRxy
- (∀x∃yRxy&~∃y∀xRxy)
- (∀y∃xRxy&~∃x∀yRxy)
- None of the above

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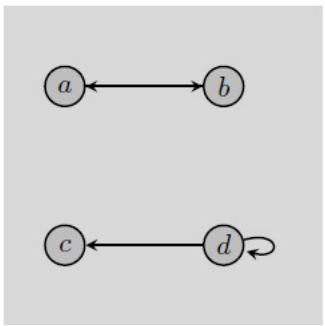
Refer to the following:



Which one of the following formulas (if any) is true in the situation represented by the above diagram?

- ∃y∀xRxy
- ∃x∀yRxy

(∀x∃yRxy&~∃y∀xRxy)
(∀y∃xRxy&~∃x∀yRxy)
None of the above

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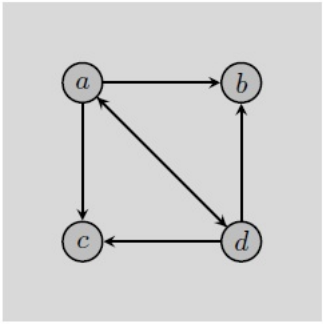
Refer to the following:



Which one of the following formulas (if any) is true in the situation represented by the above diagram?

∃y∀xRxy
∃x∀yRxy
(∀x∃yRxy&~∃y∀xRxy)
(∀y∃xRxy&~∃x∀yRxy)
None of the above

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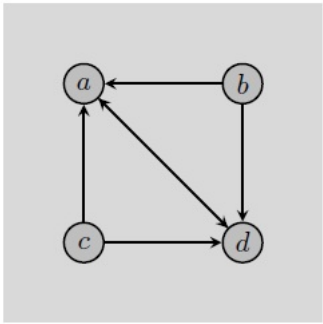
Refer to the following:



Which one of the following formulas (if any) is true in the situation represented by the above diagram?

∃y∀xRxy
∃x∀yRxy
(∀x∃yRxy&~∃y∀xRxy)
(∀y∃xRxy&~∃x∀yRxy)
None of the above

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Refer to the following:

R	a	b	c	d
a	1	0	1	0
b	1	1	0	0
c	0	1	1	0
d	1	0	1	0

Which one of the following formulas (if any) is true in the situation represented by the above table?

- (∃y∀xRxy&~∃x∀yRxy)
- (∃x∀yRxy&~∃y∀xRxy)
- (∀x∃yRxy&~∃y∀xRxy)
- (∀y∃xRxy&~∃x∀yRxy)
- None of the above

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Refer to the following:

R	a	b	c	d
a	0	0	0	1
b	0	1	0	0
c	0	0	0	0
d	1	0	1	0

Which one of the following formulas (if any) is true in the situation represented by the above table?

- (∃y∀xRxy&~∃x∀yRxy)
- (∃x∀yRxy&~∃y∀xRxy)
- (∀x∃yRxy&~∃y∀xRxy)
- (∀y∃xRxy&~∃x∀yRxy)
- None of the above

---

25 of 46

Refer to the following:

R	a	b	c	d
a	0	0	1	0
b	1	0	1	0
c	0	0	1	1
d	1	0	1	0

Which one of the following formulas (if any) is true in the situation represented by the above table?

- (∃y∀xRxy&~∃x∀yRxy)
- (∃x∀yRxy&~∃y∀xRxy)
- (∀x∃yRxy&~∃y∀xRxy)
- (∀y∃xRxy&~∃x∀yRxy)
- None of the above

---

26 of 46

Refer to the following:

R	a	b	c	d
a	0	0	0	0
b	1	1	1	1
c	0	1	0	0
d	1	0	1	0

Which one of the following formulas (if any) is true in the situation represented by the above table?

- (∃y∀xRxy&~∃x∀yRxy)
- (∃x∀yRxy&~∃y∀xRxy)
- (∀x∃yRxy&~∃y∀xRxy)
- (∀y∃xRxy&~∃x∀yRxy)
- None of the above

---

27 of 46

Refer to the following:

R	a	b	c	d
a	0	0	0	0
b	1	1	0	1
c	1	1	0	1
d	0	1	0	0

Which one of the following formulas (if any) is true in the situation represented by the above table?

- (∃y∀xRxy&~∃x∀yRxy)
- (∃x∀yRxy&~∃y∀xRxy)
- (∀x∃yRxy&~∃y∀xRxy)
- (∀y∃xRxy&~∃x∀yRxy)
- None of the above

---

28 of 46

Refer to the following:

R	a	b	c	d
a	0	1	0	0
b	0	0	0	0
c	1	1	1	1
d	0	1	0	0

Which one of the following formulas (if any) is true in the situation represented by the above table?

- (∃y∀xRxy&~∃x∀yRxy)
- (∃x∀yRxy&~∃y∀xRxy)
- (∀x∃yRxy&~∃y∀xRxy)
- (∀y∃xRxy&~∃x∀yRxy)
- None of the above

---

29 of 46

Refer to the following:

R	a	b	c	d

a	0	1	0	0
b	0	0	1	0
c	0	0	0	1
d	0	0	1	0

Which one of the following formulas (if any) is true in the situation represented by the above table?

- (∃y∀xRxy&~∃x∀yRxy)
- (∃x∀yRxy&~∃y∀xRxy)
- (∀x∃yRxy&~∃y∀xRxy)
- (∀y∃xRxy&~∃x∀yRxy)
- None of the above

---

30 of 46

Refer to the following:

R	a	b	c	d
a	0	0	0	0
b	1	0	0	1
c	0	1	0	0
d	0	0	1	0

Which one of the following formulas (if any) is true in the situation represented by the above table?

- (∃y∀xRxy&~∃x∀yRxy)
- (∃x∀yRxy&~∃y∀xRxy)
- (∀x∃yRxy&~∃y∀xRxy)
- (∀y∃xRxy&~∃x∀yRxy)
- None of the above

---

31 of 46

Refer to the following:

R	a	b	c	d
a	0	0	1	0
b	0	0	0	0
c	1	0	0	1
d	0	0	1	0

Which one of the following formulas (if any) is true in the situation represented by the above table?

- (∃y∀xRxy&~∃x∀yRxy)
- (∃x∀yRxy&~∃y∀xRxy)
- (∀x∃yRxy&~∃y∀xRxy)
- (∀y∃xRxy&~∃x∀yRxy)

None of the above

---

32 of 46

Refer to the following:

R	a	b	c	d
a	1	0	1	0
b	1	1	0	0
c	1	0	0	0
d	1	0	1	0

Which one of the following formulas (if any) is true in the situation represented by the above table?

(∃y∀xRxy&~∃x∀yRxy)
(∃x∀yRxy&~∃y∀xRxy)
(∀x∃yRxy&~∃y∀xRxy)
(∀y∃xRxy&~∃x∀yRxy)
None of the above

---

33 of 46

Refer to the following:

R	a	b	c	d
a	1	0	1	0
b	1	1	1	1
c	1	0	0	0
d	1	0	1	0

Which one of the following formulas (if any) is true in the situation represented by the above table?

(∃y∀xRxy&~∃x∀yRxy)
(∃x∀yRxy&~∃y∀xRxy)
(∀x∃yRxy&~∃y∀xRxy)
(∀y∃xRxy&~∃x∀yRxy)
None of the above

---

34 of 46

Refer to the following:

R	a	b	c	d
a	1	1	1	0
b	0	1	1	1
c	1	1	0	0
d	1	1	1	1

Which one of the following formulas (if any) is true in the situation represented by the above table?

- (∃y∀xRxy&~∃x∀yRxy)
- (∃x∀yRxy&~∃y∀xRxy)
- (∀x∃yRxy&~∃y∀xRxy)
- (∀y∃xRxy&~∃x∀yRxy)
- None of the above

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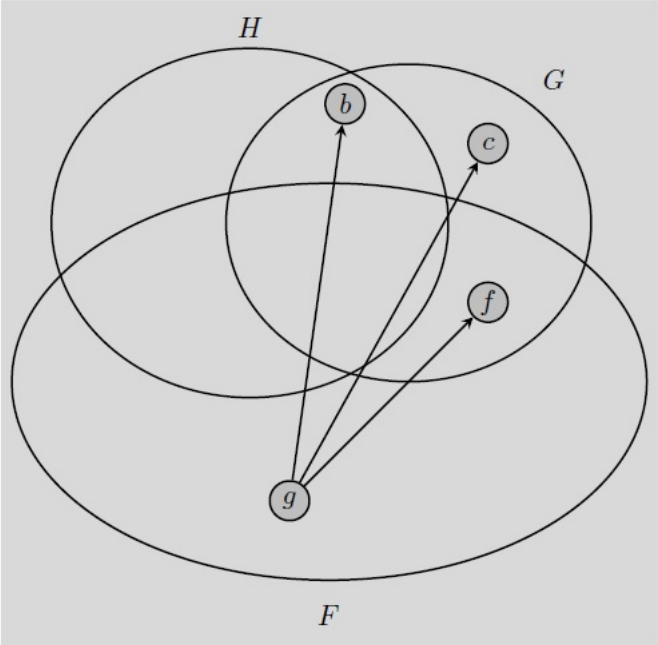
Refer to the following:



Which one of the following formulas is true in the situation represented by the above diagram?

- ∃x∀yRxy
- ∀y∃x(Gy⊃Rxy)
- ∃x(Hx&Fx)
- (∀x∃yRxy&∀x(Gx))
- None of the above

---

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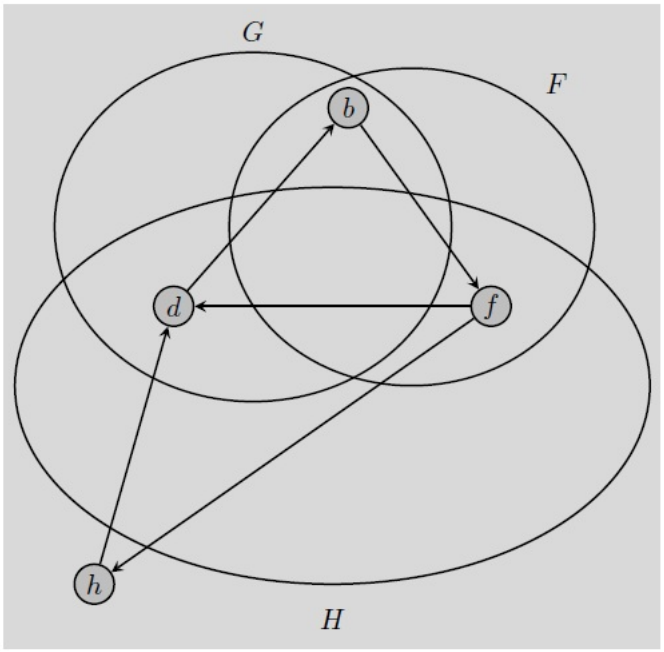
Refer to the following:



Which one of the following formulas is true in the situation represented by the above diagram?

- ∀x∃y(~Gx⊃ Rxy)
- ∀x∀y(~Gx⊃ Rxy)
- ~∃x∃y((Gx&Gy)&Rxy)
- ∃x∀y(Rxy⊃(~Gx&~(Fx∨Hx)))
- None of the above

---

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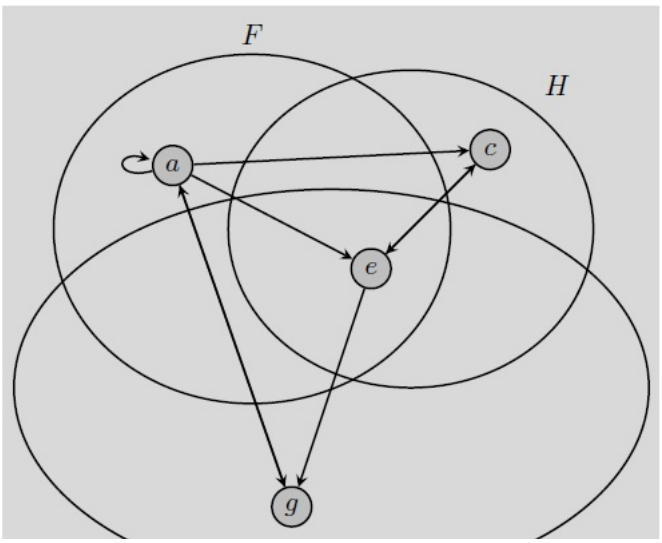
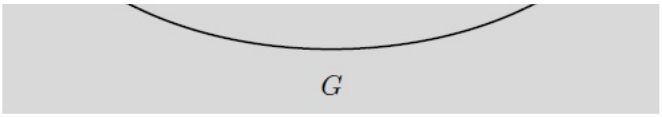
Refer to the following:





Which one of the following formulas is true in the situation represented by the above diagram?

- (∃x∀y(Rxy)&∃y∀x(Rxy&Fx))
- ∃y∀x(Rxy&Fx)
- (∀x∃yRxy&~(∃x∃y(Rxy&(~Fx&(~Gx&~Hx)))))
- ∀x∃y((Fx&(Gx&Hx))⊃ (Gy&Rxy))
- None of the above

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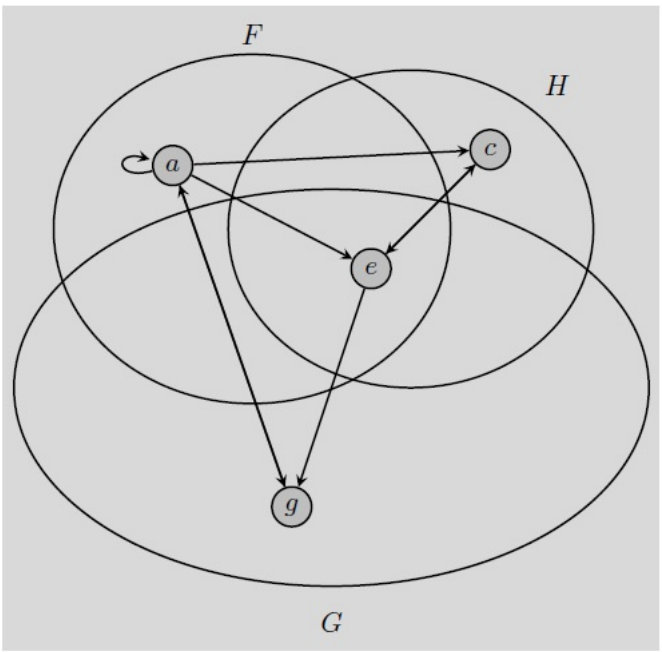
Refer to the following:



Which one of the following formulas is true in the situation represented by the above diagram?

- ∃x∀y(Rxy&Gx)
- ∃x∀y(Rxy&Hx)
- ∃x∀y(Rxy&(Hx&~Gx))
- ∃x∀y(Rxy&~Fx)
- None of the above

---

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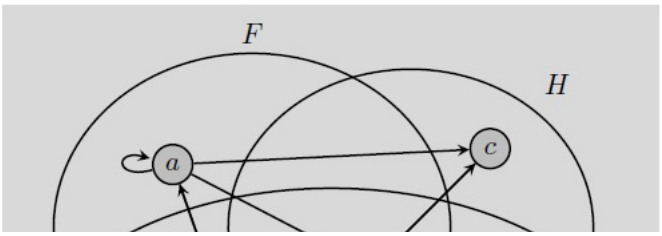
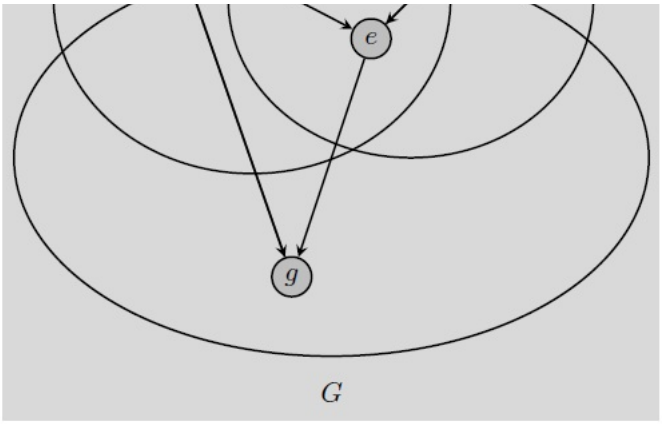
Refer to the following:





Which one of the following formulas is true in the situation represented by the above diagram?

- ∃x∀y(Rxy&(Hx∨Gx))
- ∃y∀x(Rxy&Fy)
- ∃y∀x(Rxy&Gy)
- ∃y∀x(Rxy∨(~Rxy&Gy))
- None of the above

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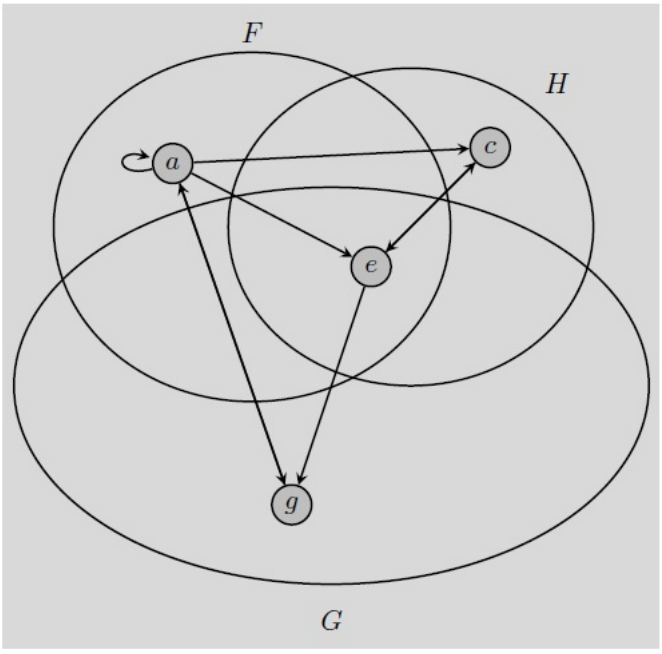
Refer to the following:



Which one of the following formulas is true in the situation represented by the above diagram?

- ∃x∀y(Rxy&Ryx)
- ∀x∃y(Hx⊃(Gy&Rxy))
- ∃x∀y(Rxy&Gx)
- ∀y∃x(Rxy&Gy)
- None of the above

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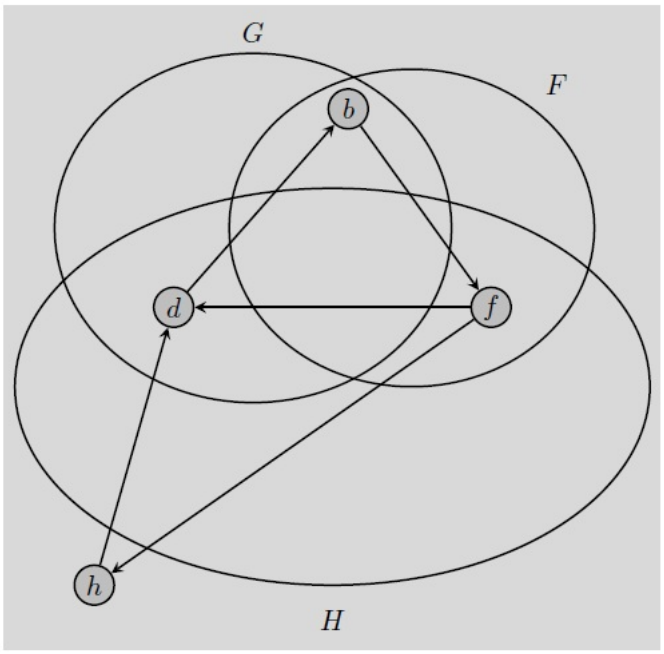
Refer to the following:



Which one of the following formulas is true in the situation represented by the above diagram?

- ∃x∀y(Rxy&Hx)
- ∃x∀y(~Gx&Rxy)
- ∀y∃x(Rxy&Gy)
- ~∀y∃x(Fy&Rxy)
- None of the above

---

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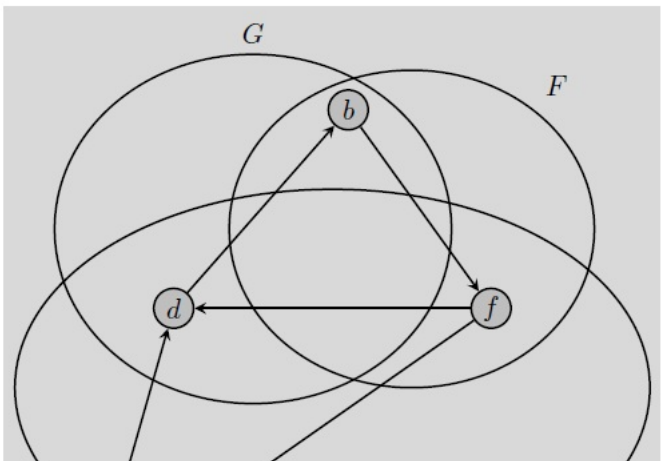
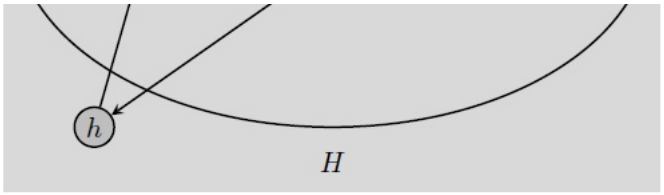
Refer to the following:





Which one of the following formulas is true in the situation represented by the above diagram?

- ∃x∀y(Hx&Rxy)
- ~∃x∀y(Rxy&Gx)
- ~(∀y∃xRxy&~∃x∀yRxy)
- ∀y∃x(Rxy&Gx)
- None of the above

---

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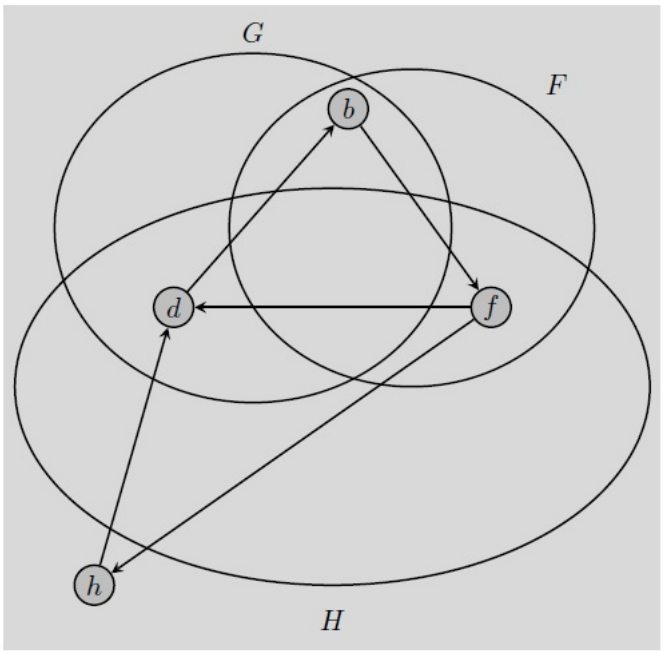
Refer to the following:



Which one of the following formulas is true in the situation represented by the above diagram?

- ~(∀x∃yRxy&~∃y∀xRxy)
- ∃x∀y(Hx&Rxy)
- ~∀x∀y(Rxy⊃Fy)
- ∀x∀y(Fy&Gx)
- None of the above

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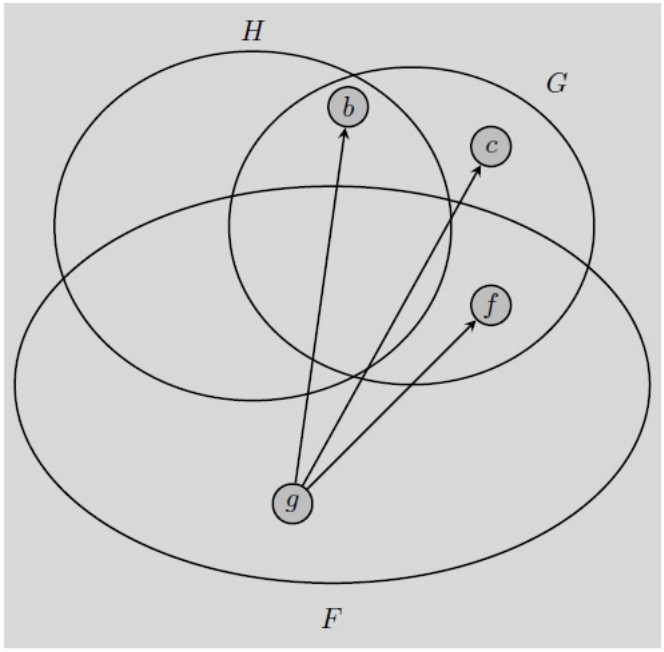
Refer to the following:



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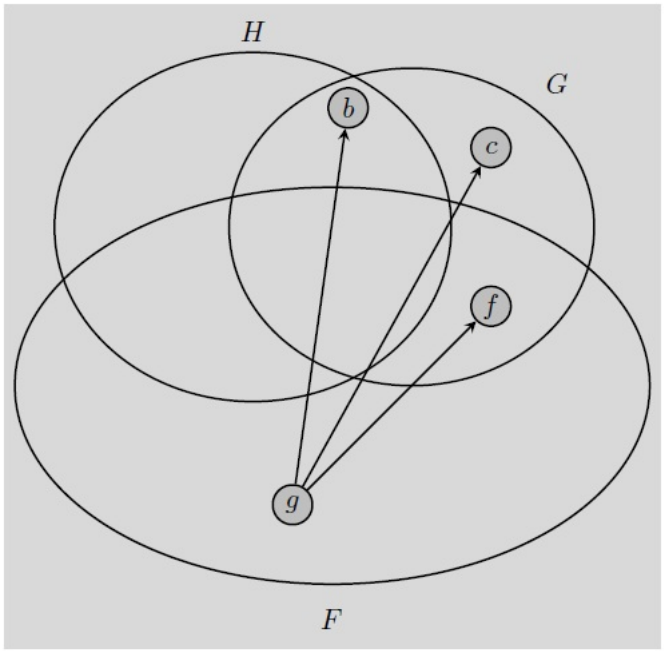
Refer to the following:

Which one of the following formulas is true in the situation represented by the above diagram?

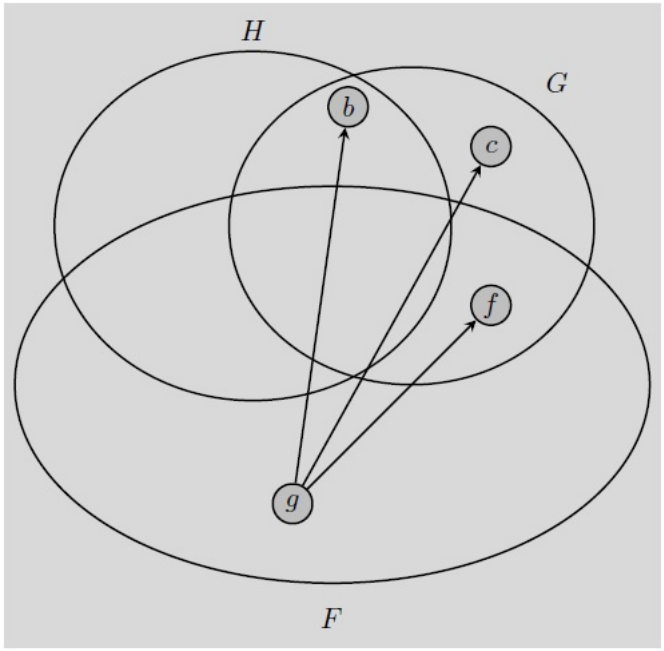
- ∃x∃y(Rxy&(Hx&~Gx))
- ∃x∀y(Rxy&(Hx&~Gx))
- ∀y∃x(Rxy)
- ∀x∀y(Rxy⊃(Fx&~Hx))
- None of the above



46 of 46

Refer to the following:

Which one of the following formulas is true in the situation represented by the above diagram?



Which one of the following formulas is true in the situation represented by the above diagram?

- ∃x∀y(Rxy&Gx)
- ∃x∀y(Rxy&Fx)
- ∃x∃y(Rxy&Ryx)
- ∃x∃x(Gx&Rxy)
- None of the above

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