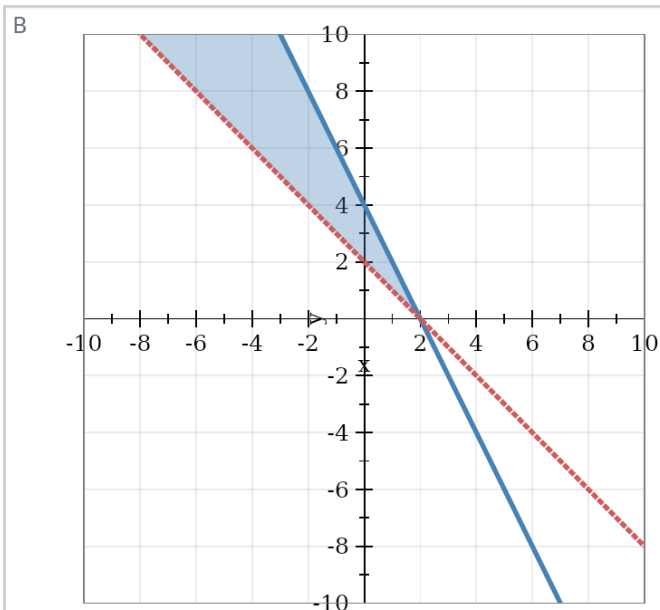
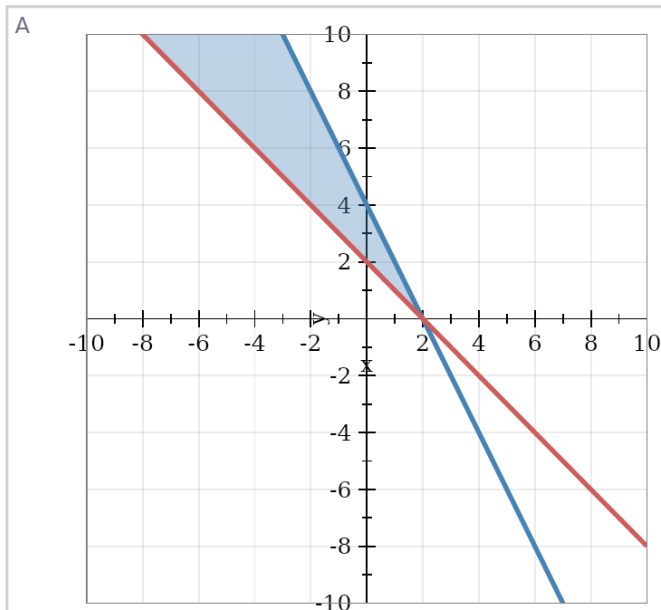




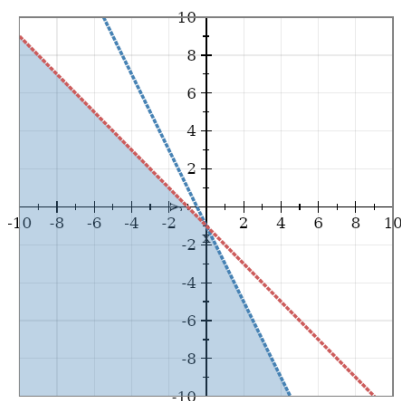
Systems and Inequalities

1 Which graph shows this pair of linear inequalities?

$$\begin{cases} y \leq -2x + 4 \\ y \geq -x + 2 \end{cases}$$



2 Which pair of linear inequalities does this graph show?



A

$$\begin{cases} y < -2x - 1 \\ y \leq -x - 1 \end{cases}$$

B

$$\begin{cases} y > -2x - 1 \\ y < -x - 1 \end{cases}$$

C

$$\begin{cases} y < -2x - 1 \\ y < -x - 1 \end{cases}$$

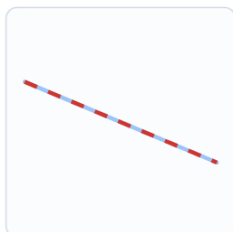
D

$$\begin{cases} y < -2x - 1 \\ y < -x \end{cases}$$



Systems and Inequalities

- 3 How many solutions does this system of linear equations have?



A Zero solutions

B One solution

C Infinitely many solutions

- 4 Find the intersection point of these two lines

$$y = 3x + 8$$

$$y = 2x + 7$$

A $(-2, 0)$

B $(-1, 5)$

C $(-3, 1)$

D $(-1, 4)$

E $(2, 6)$

F $(2, 0)$

- 5 Find the intersection point of these two lines

$$y = 1x + 5$$

$$y = -5x + 5$$

A $(4, 6)$

B $(0, 9)$

C $(1, 7)$

D $(-0, 5)$

E $(3, 2)$

F $(2, 1)$

- 6 Solve the two-step inequality for x.

$$-6 - 2x < -18$$

A $x \geq 6$

B $x > 7$

C $x < 6$

D $x > 6$

- 7 Solve the two-step inequality for x.

$$2x + 10 > 26$$

A $x > 9$

B $x < 8$

C $x \geq 8$

D $x > 8$

- 8 Solve the two-step inequality for x.

$$-5 - 2x > -17$$

A $x \leq 6$

B $x < 7$

C $x > 6$

D $x < 6$

- 9 Solve the two-step inequality for x.

$$9 - 9x \geq -90$$

A $x \leq 12$

B $x < 11$

C $x \leq 11$

D $x \geq 11$

- 10 How many solutions does this system of linear equations have?

$$x + 2y = 5$$

$$3x + 2y = 8$$

A One solution

B Zero solutions

C Infinitely many solutions