

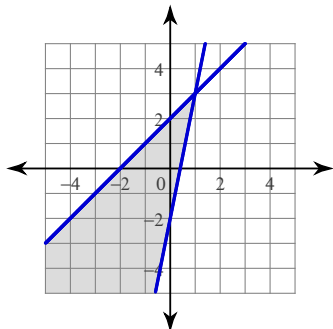
Algebra 2 - Chapter 3 Systems Review

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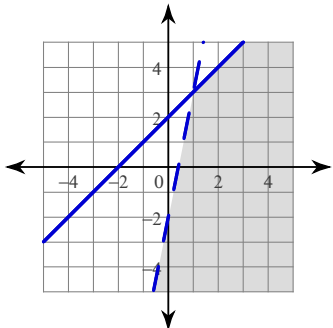
Sketch the solution to each system of inequalities.

1) $5x - y \leq 2$
 $x - y \geq -2$

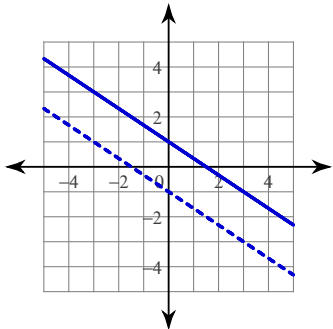
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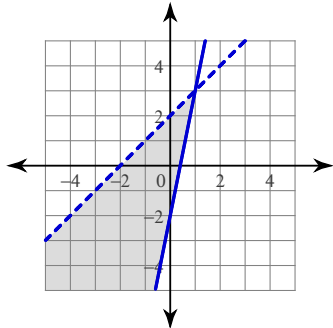
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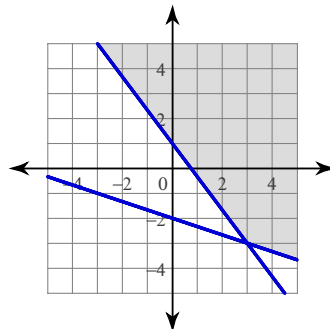


D)

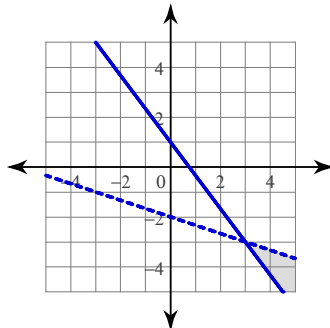


2) $x + 3y < -6$
 $2x - 3y \leq -3$

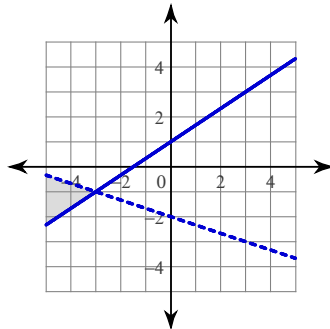
A)



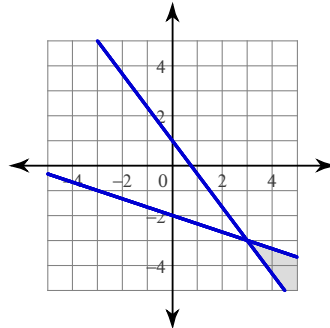
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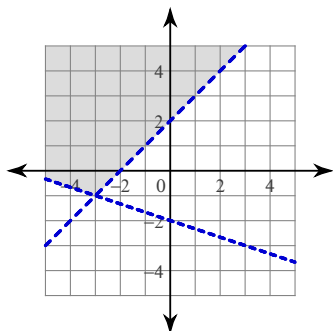


D)

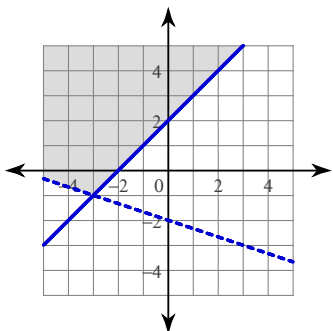


3) $x + 3y \leq -6$
 $x - y \leq -2$

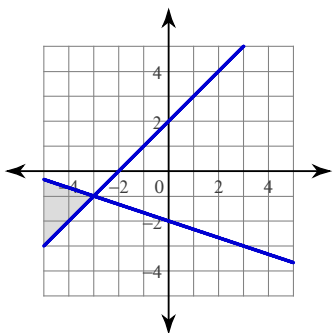
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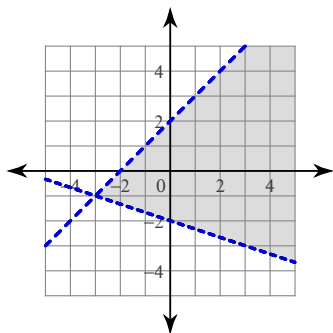
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C)

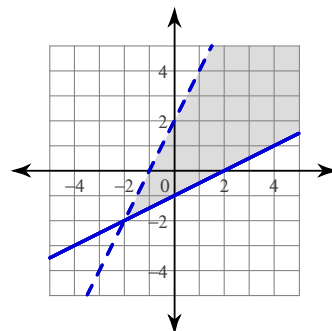


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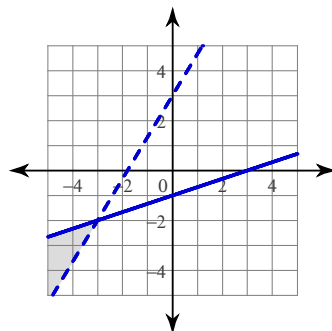


4) $5x + y \leq -3$
 $y > 2$

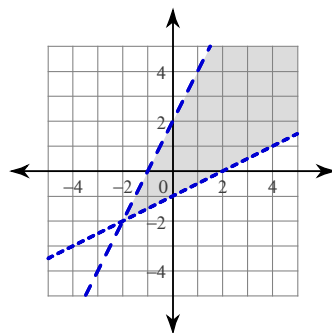
A)



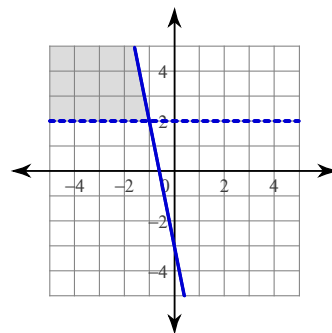
B)



C)



D)



Solve each system by graphing.

5) $-3x + 6 = -2y$
 $-2y = -3x + 2$

- A) (1, 4) B) (4, 1)
C) No solution D) (-4, 1)

6) $-1 - 4x = -y$
 $-6 = 3y - 3x$

- A) (-3, -1) B) No solution
C) (-1, -3) D) (3, -1)

7) $-y - \frac{1}{4}x = -1$
 $0 = -x - 2 - y$

- A) (-4, -2)
B) (-4, 2)
C) Infinite number of solutions
D) (3, -4)

8) $0 = 3y - 6 - 3x$
 $0 = -3y - 12 - 15x$

- A) (1, 1) B) (1, -1)
C) (-1, -1) D) (-1, 1)

Use elimination to find the x-coordinate of the solution to each system.

9) $3x + 3y = 6$
 $-3x + 3y = -6$

- A) 2 B) -2
C) 1 D) -1

10) $3x + 2y = 16$
 $3x - y = 10$

- A) 4 B) 2
C) -5 D) 6

Solve each system by elimination.

11) $6 = -2x + 6y$
 $-6y + 6 = -3x$

- A) (0, 2) B) (2, 0)
C) (0, -1) D) (0, 1)

Use elimination to find the x-coordinate of the solution to each system.

12) $-9x - 5y = -11$
 $-3x - y = -1$

- A) -2 B) 1
C) 2 D) -1

13) $6x - 6y = 18$
 $2x + y = 6$

- A) 0 B) 3
C) -5 D) -1

Solve each system by elimination.

14) $-3y = -4x - 6$
 $5x = 5y - 10$

- A) (3, 2) B) (0, 2)
C) (2, 0) D) (-2, 0)

Use elimination to find the x-coordinate of the solution to each system.

15) $-3x + 3y = -18$
 $-2x - 4y = 12$

- A) 2
B) -6
C) Infinite number of solutions
D) -2

16) $-5x + 4y = 10$
 $6x - 5y = -12$

- A) 4 B) -2
C) 0 D) -4

Solve each system by substitution.

17) $y = -2x + 3$
 $-3x + 2y = -1$

- A) (-2, 2) B) (-2, -1)
C) (1, 1) D) (-1, -2)

18) $y = 2x$
 $4x + 2y = 8$

- A) (1, 4) B) (-2, 4)
C) (1, 2) D) (-1, 4)

19) $4x + 3y = 6$
 $y = 2x + 2$

- A) (0, -2)
B) (0, -4)
C) (0, 2)
D) Infinite number of solutions

20) $-6x - 2y = -2$
 $y = -3x - 2$

- A) (3, -4) B) No solution
C) (-4, 4) D) (-1, 4)

21) $y = -2x + 1$
 $y = 2x - 7$

- A) (-3, -2) B) (-3, 2)
C) (-2, 3) D) (2, -3)

Solve each system by elimination.

22) $x + 2y - z = -5$
 $-x - 2y + 2z = 5$
 $x - 3y - 2z = 15$

- A) (1, -1, 4) B) (3, -4, 0)
C) (-4, -1, -2) D) (-4, 1, 3)

23) $2x + 2y + 3z = 13$
 $-2x + y - z = -2$
 $3x + 4y - 2z = 16$

- A) (2, 3, 1) B) (2, -3, 2)
C) (-3, 3, -3) D) (3, 3, 4)

24) $-3x - 3y + 2z = -2$
 $-x - 2y - 4z = -11$
 $x - 4y - 3z = -9$

- A) (3, 1, 3) B) (4, -2, -3)
C) (1, 1, 2) D) (3, 3, 1)

25) $4x + 3y + 2z = 5$
 $-x - 4y + 4z = 11$
 $-3x + y + 2z = 0$

- A) (1, -1, 2) B) (-1, 0, 1)
C) (0, -4, -1) D) (3, 1, -1)

26) $-3x - 4y - z = 5$

$-2x - 3y = 7$

$-2x + y + 2z = 3$

A) $(4, -3, 1)$

B) $(1, -3, 4)$

C) $(1, -2, 2)$

D) $(0, -3, 4)$

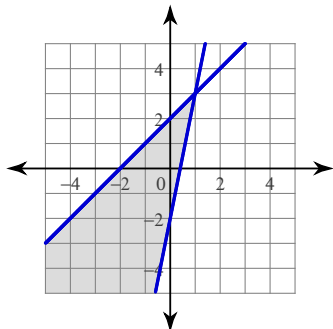
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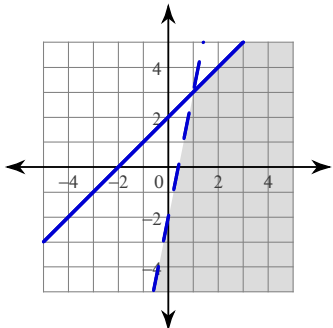
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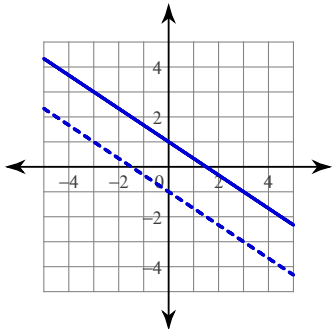
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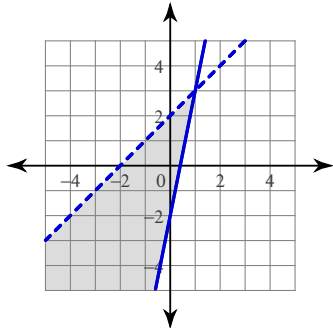
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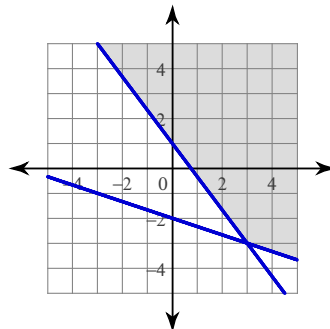


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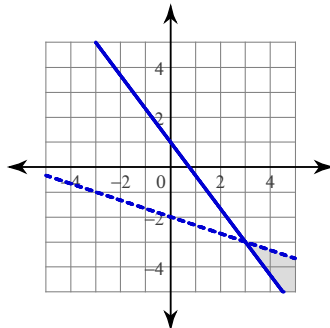


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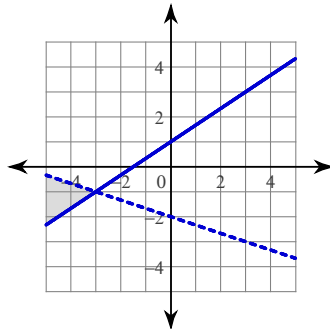
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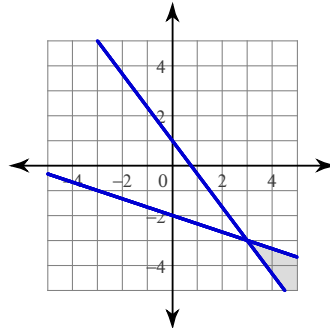
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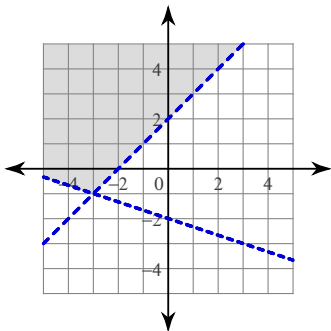


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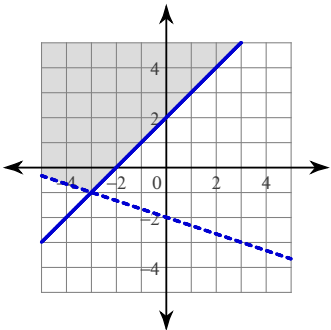


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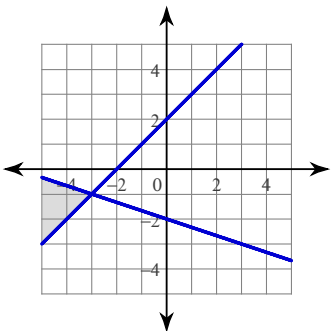
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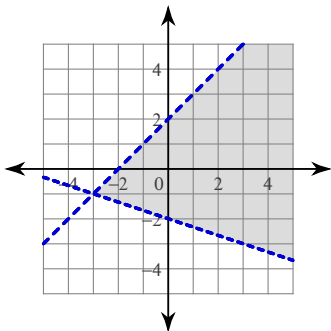
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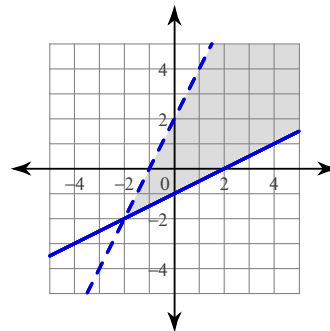


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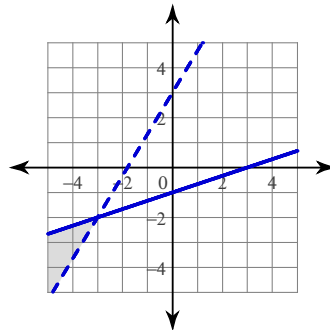


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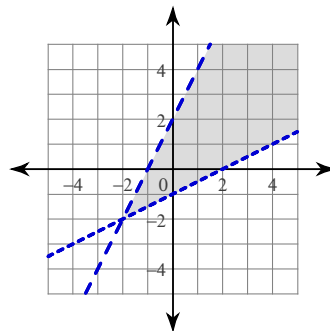
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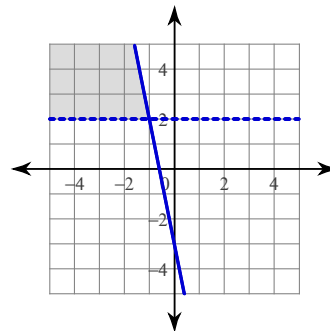
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