

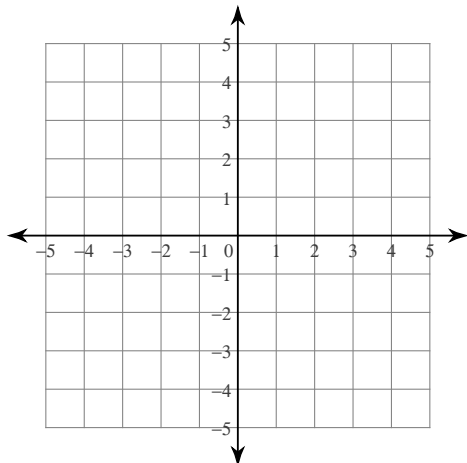
## Systems graphing exam review

Date \_\_\_\_\_

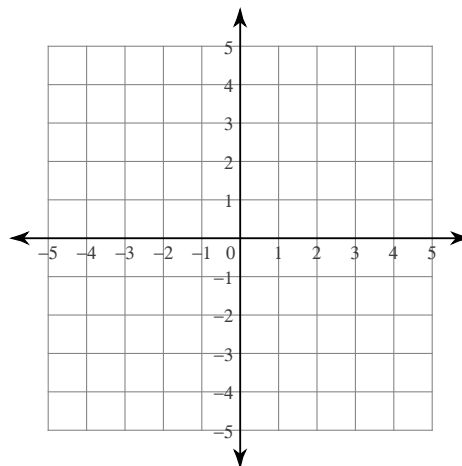
Solve each system by graphing.

1)  $y = \frac{1}{3}x + 2$

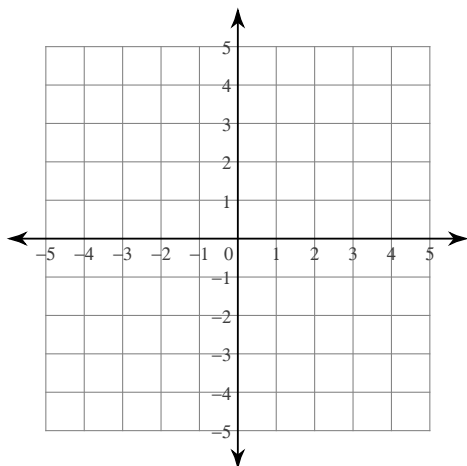
$x = -3$



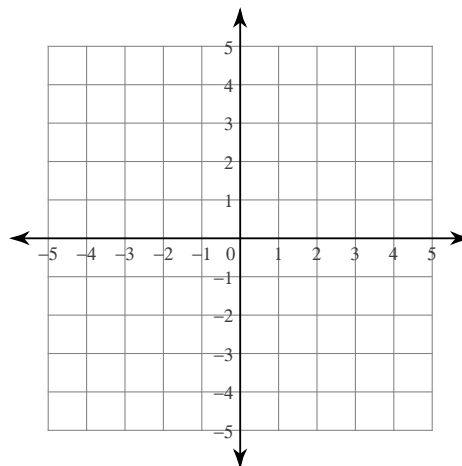
2)  $y = x - 1$   
 $y = 4x + 2$



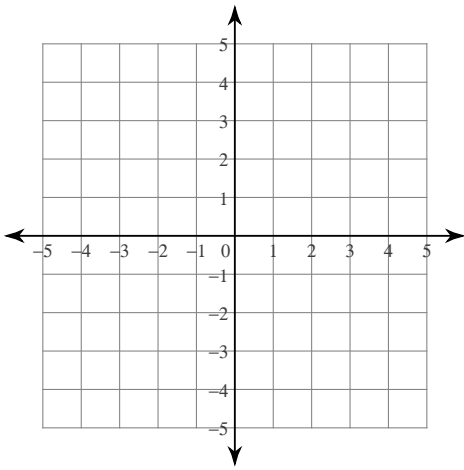
3)  $2y = 3x + 8$   
 $x = -y - 1$



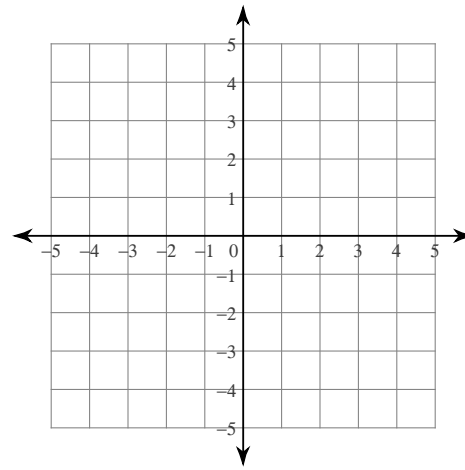
4)  $\frac{1}{2}y = 1 + \frac{1}{3}x$   
 $-12 + 8x = 3y$



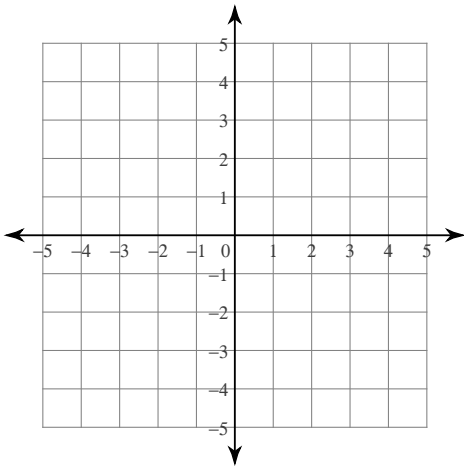
5)  $4 = -x - 4y$   
 $8 = -2y + x$



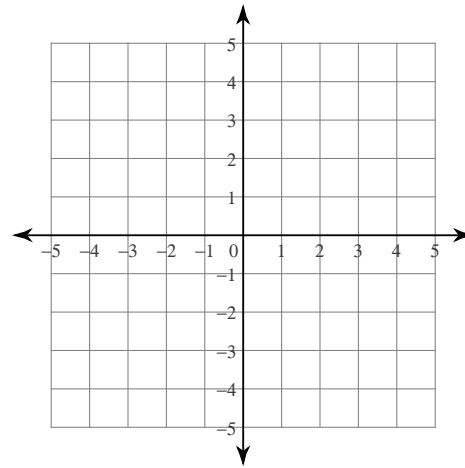
6)  $-5x - 3y - 12 = 0$   
 $-4x = 18 - 6y$



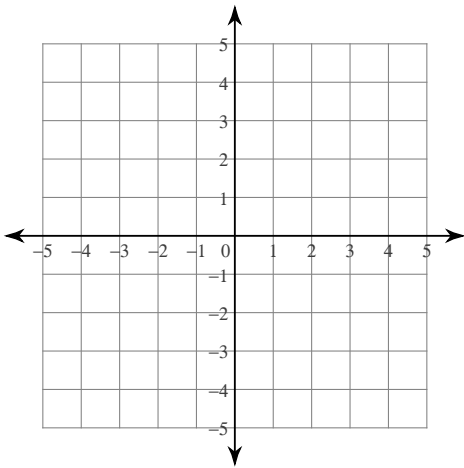
7)  $0 = -4x - y + 4$   
 $x = -y - 2$



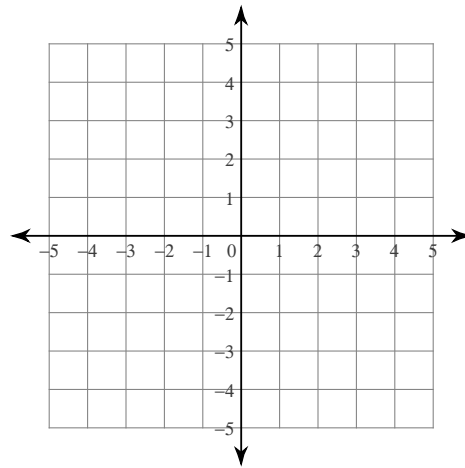
8)  $0 = 18 + 9y - 3x$   
 $6y - 2x = -12$



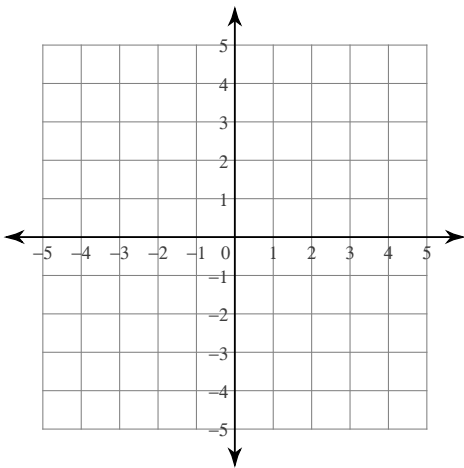
9)  $0 = -2x - y + 3$   
 $2 = 2x + y$



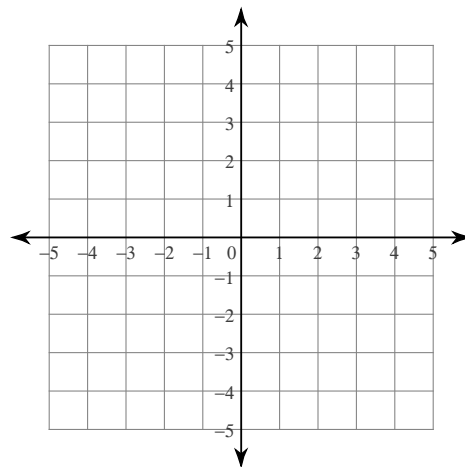
10)  $y - 1 = 2x$   
 $2x + 1 - y = 0$



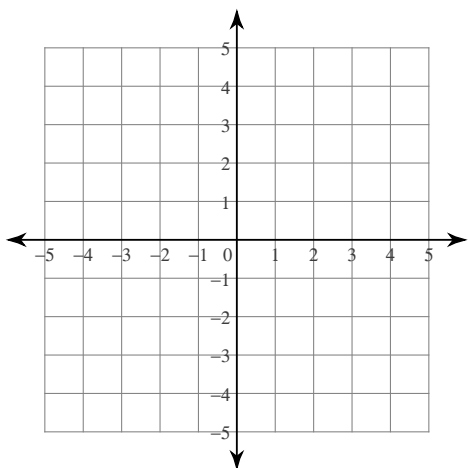
11)  $2y - 8 = x$   
 $3x + 12y = 12$



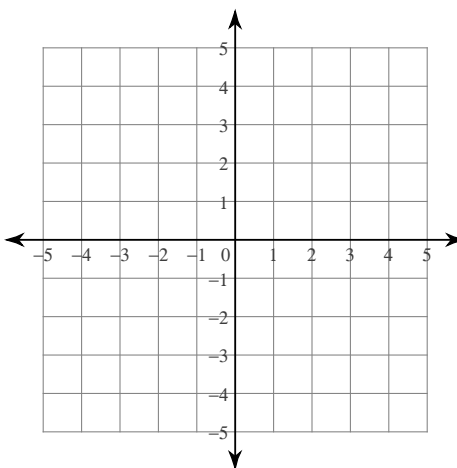
12)  $0 = 2 - x - 2y$   
 $3y - 12 = \frac{3}{4}x$



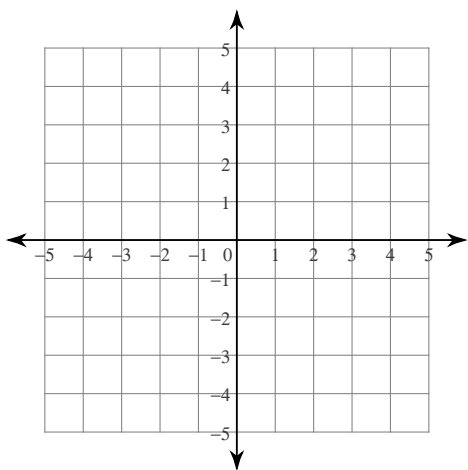
13)  $-16 - 4y = 2x$   
 $x = 2 - 2y$



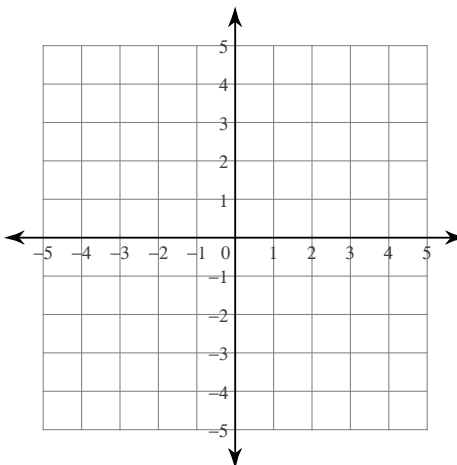
14)  $-9 - 3y = x$   
 $6y - 2x = -6$



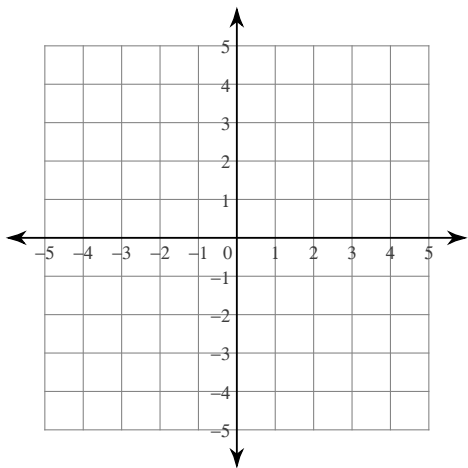
15)  $x + 12 = 4y$   
 $-1 + \frac{3}{4}x = \frac{1}{2}y$



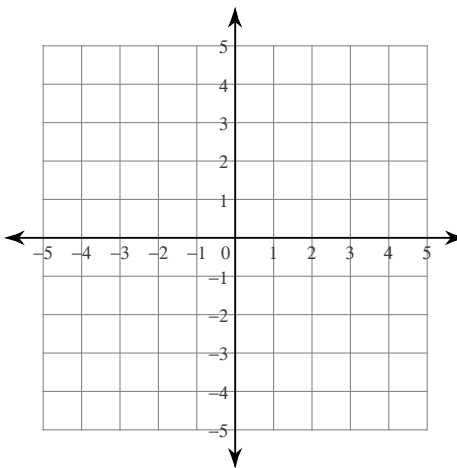
16)  $y = 2x - 1$   
 $y + 2x - 3 = 0$



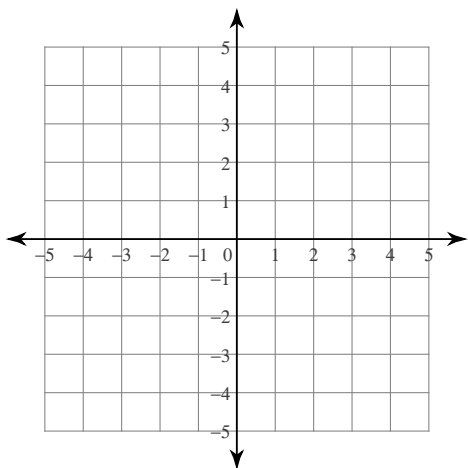
17)  $0 = -12 - 9x + 3y$   
 $y + 2x + 1 = 0$



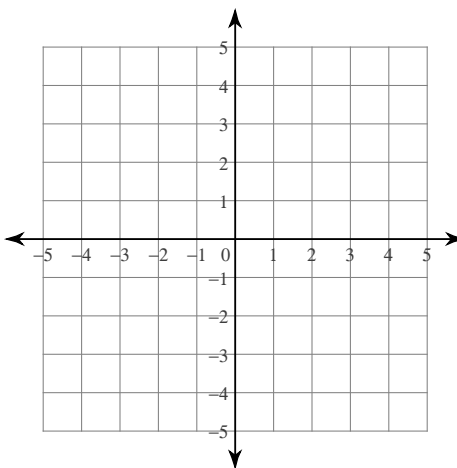
18)  $-3x = 16 + 4y$   
 $-5x - 16 = -4y$



19)  $-y = 4 + x$   
 $y + 4 = -x$



20)  $x + 3y + 9 = 0$   
 $3y = -5x + 3$



## Answers to Systems graphing exam review

- |                                  |                |                                  |                |
|----------------------------------|----------------|----------------------------------|----------------|
| 1) $(-3, 1)$                     | 2) $(-1, -2)$  | 3) $(-2, 1)$                     | 4) $(3, 4)$    |
| 5) $(4, -2)$                     | 6) $(-3, 1)$   | 7) $(2, -4)$                     |                |
| 8) Infinite number of solutions  | 9) No solution | 10) Infinite number of solutions |                |
| 11) $(-4, 2)$                    | 12) $(-4, 3)$  | 13) No solution                  | 14) $(-3, -2)$ |
| 15) $(4, 4)$                     | 16) $(1, 1)$   | 17) $(-1, 1)$                    | 18) $(-4, -1)$ |
| 19) Infinite number of solutions | 20) $(3, -4)$  |                                  |                |