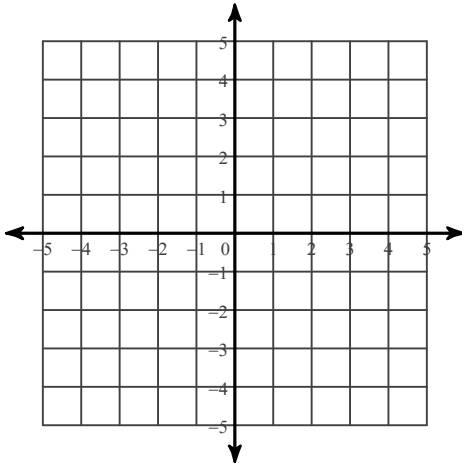


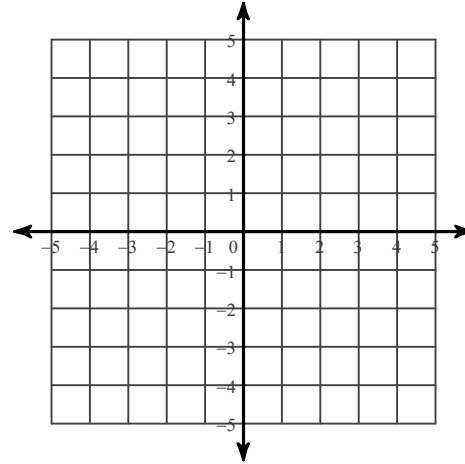
Solving Systems of Equations by Graphing

Solve each system by graphing (find the point of intersection of the two lines) .

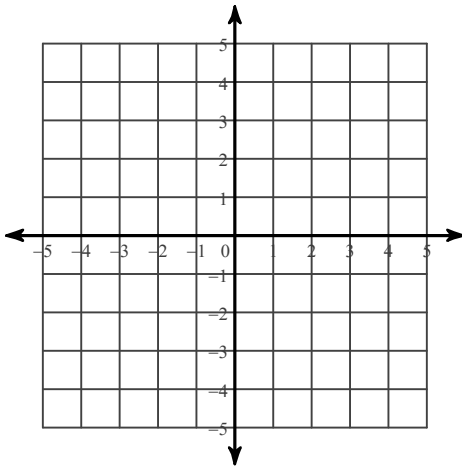
$$1) \begin{aligned} y &= 2x - 3 \\ y &= -3x + 2 \end{aligned}$$



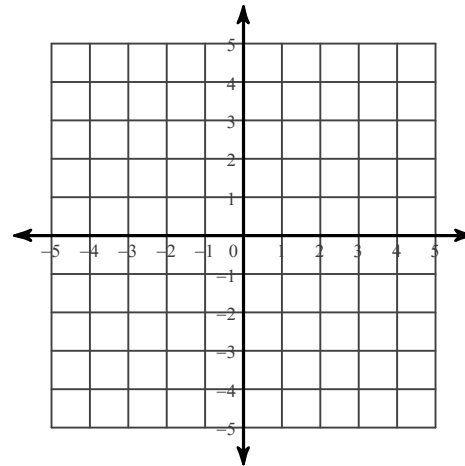
$$2) \begin{aligned} y &= -\frac{5}{3}x + 1 \\ y &= -\frac{1}{3}x - 3 \end{aligned}$$



$$3) \begin{aligned} y &= -x + 1 \\ x &= 3 \end{aligned}$$

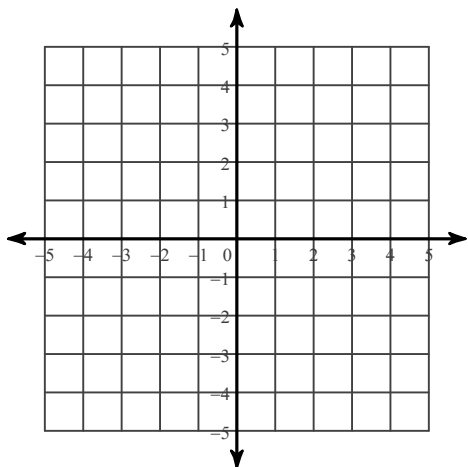


$$4) \begin{aligned} y &= 4x + 1 \\ y &= x - 2 \end{aligned}$$



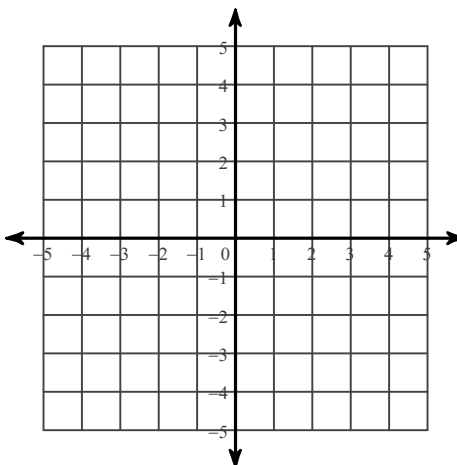
5) $y = -\frac{1}{3}x + 2$

$y = -2x - 3$



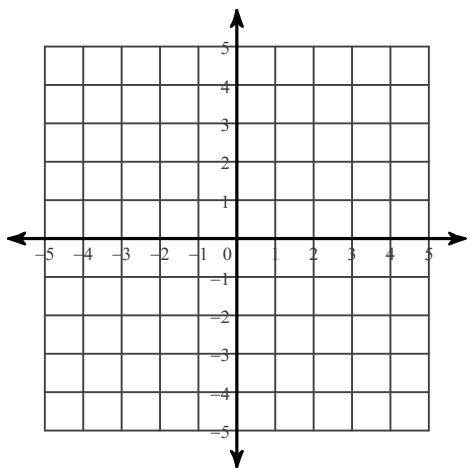
6) $y = -\frac{1}{4}x + 3$

$y = -\frac{3}{2}x - 2$



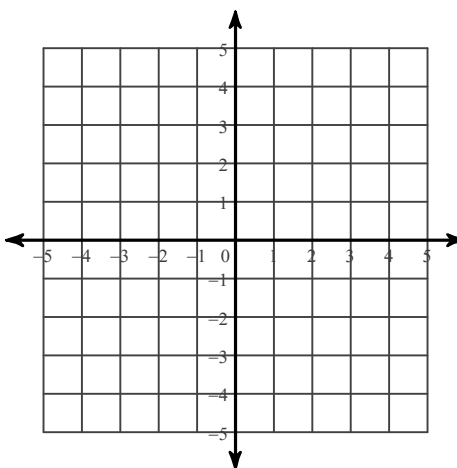
7) $y = \frac{4}{3}x - 3$

$y = 1$



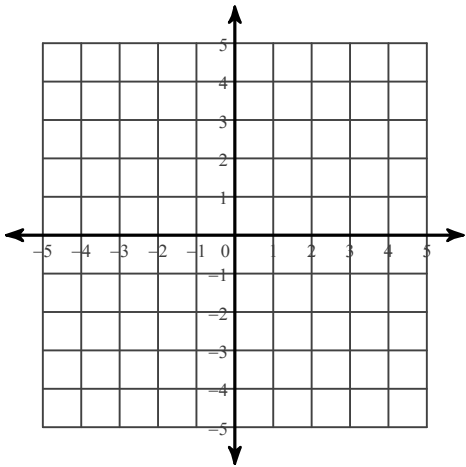
8) $y = -2x - 4$

$y = 4x + 2$



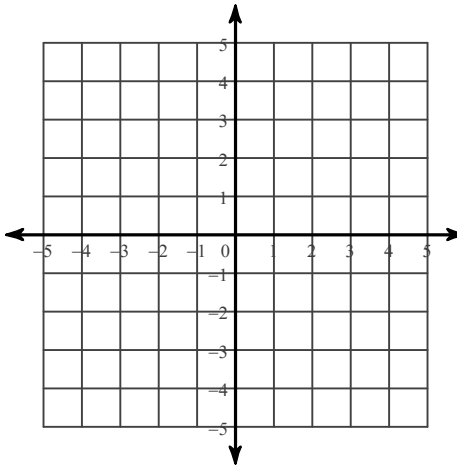
9) $y = -\frac{3}{2}x + 4$

$y = \frac{3}{2}x - 2$



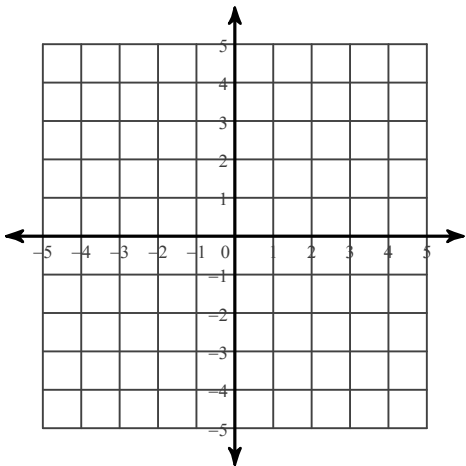
10) $y = 2x - 4$

$y = \frac{1}{4}x + 3$



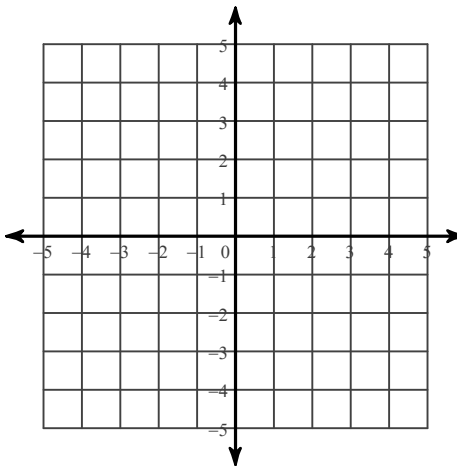
11) $5x + y = 4$

$x - y = 2$



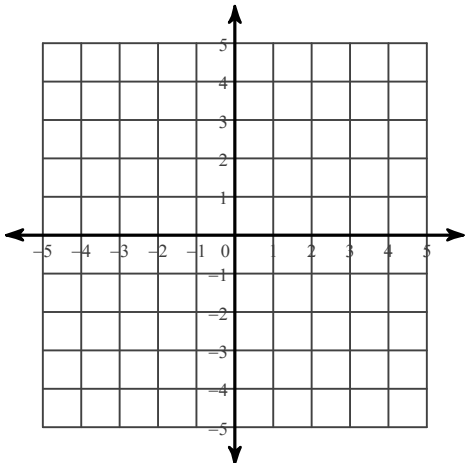
12) $x - 4y = -4$

$5x - 4y = 12$



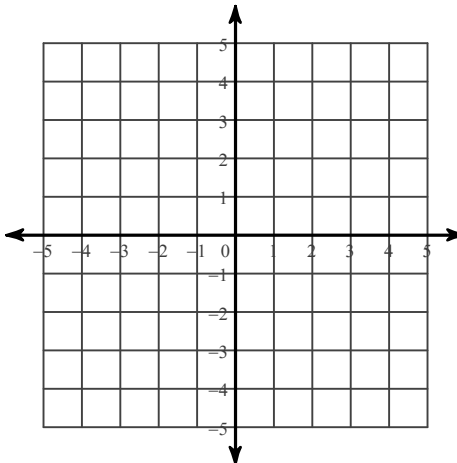
13) $x + y = 3$

$8x + y = -4$

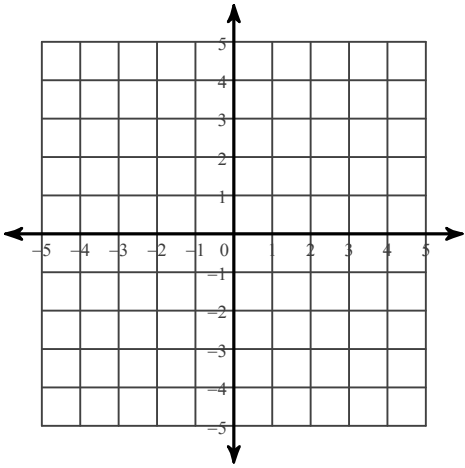


14) $x - y = 2$

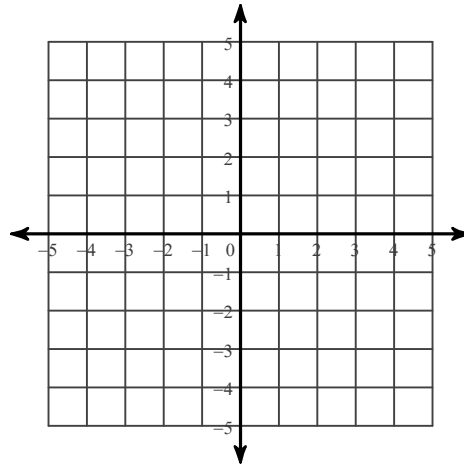
$x = -2$



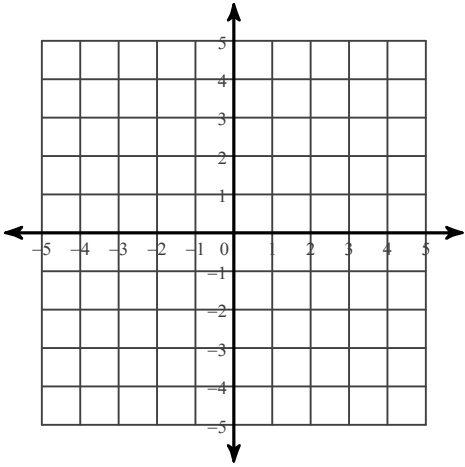
15) $2x + y = 1$
 $2x - y = 3$



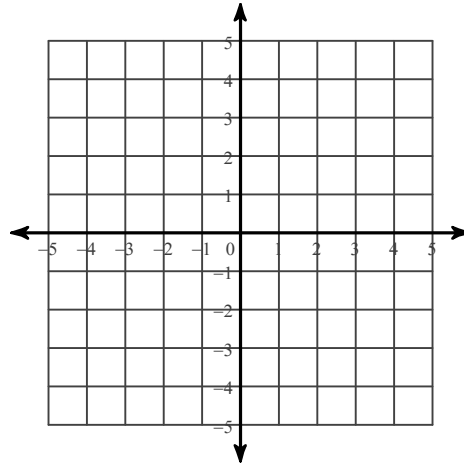
16) $x - 3y = -6$
 $2x - y = 3$



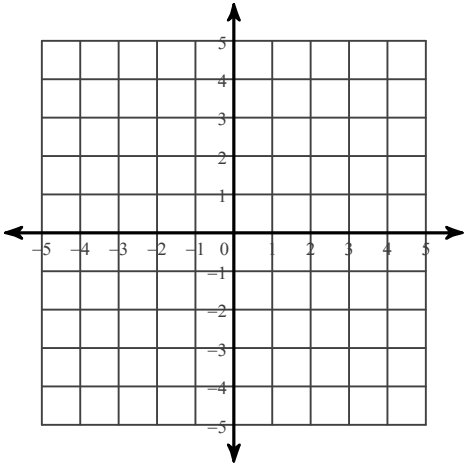
17) $x + 3y = -12$
 $5x - 3y = -6$



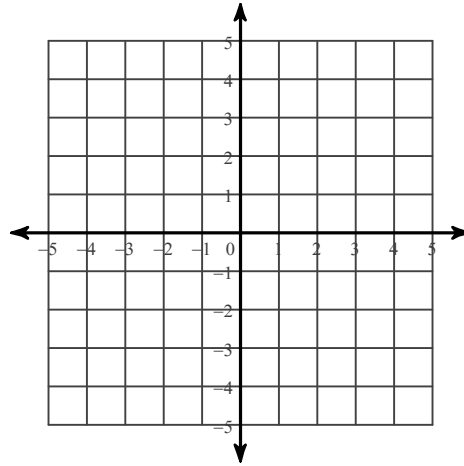
18) $2x + y = -4$
 $x + 4y = 12$



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

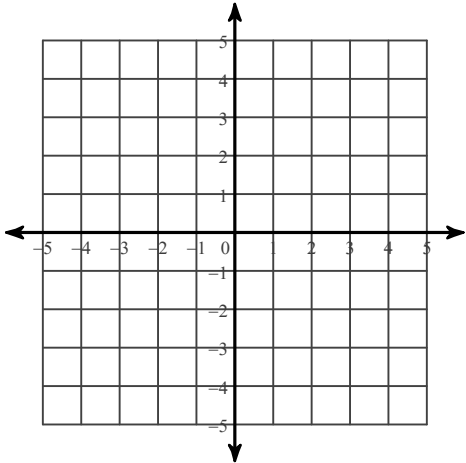


20) $2x + 3y = -12$
 $5x - 3y = -9$

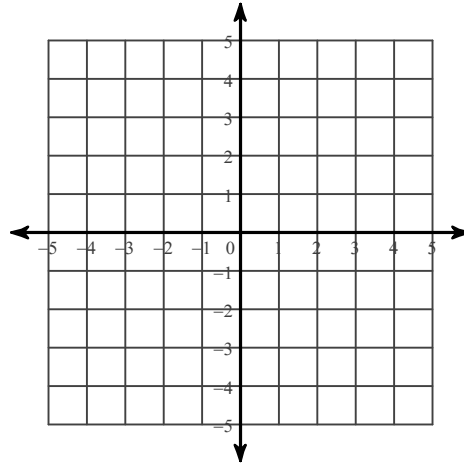


Solve each system by graphing (find the point of intersection of the two lines).

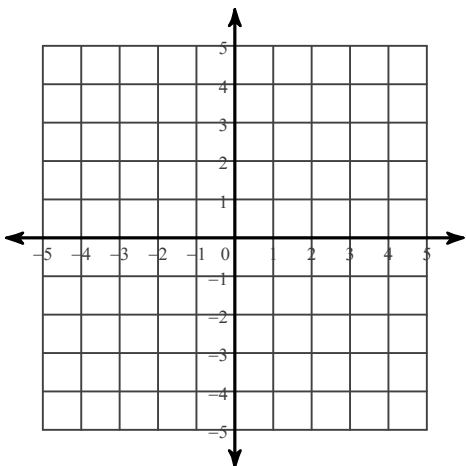
21) $-6x + y = 4$
 $-y - 2x = 4$



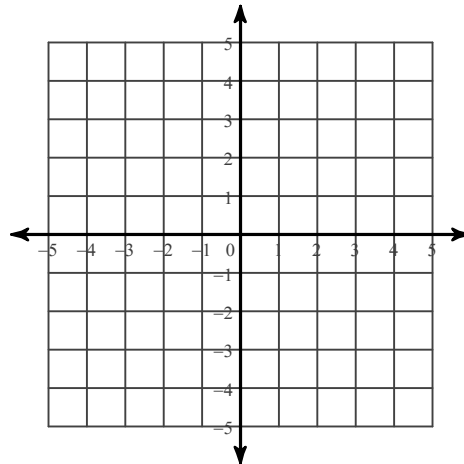
22) $-y - 3 + 4x = 0$
 $-4 = -3x - y$



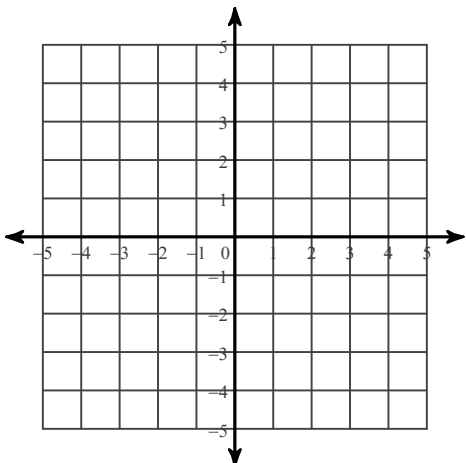
23) $0 = -3x - 4 - 2y$
 $2 - \frac{1}{2}x = y$



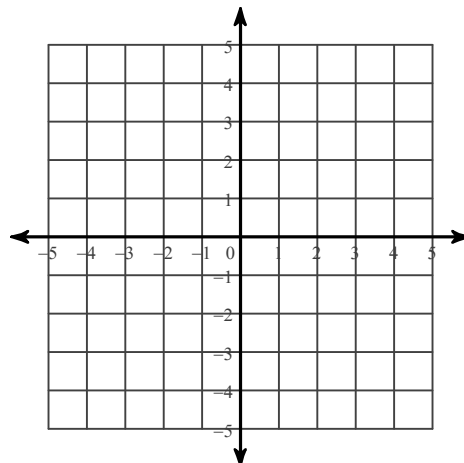
24) $-2x - y = 1$
 $-6x = 3y + 3$



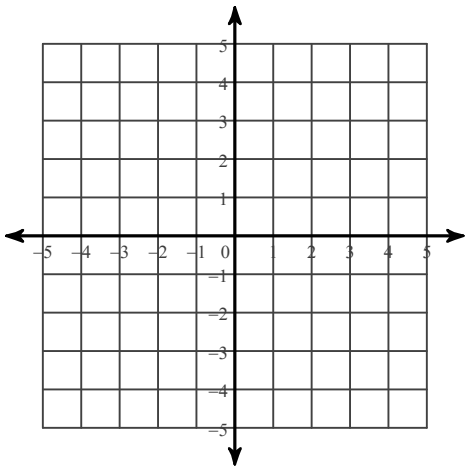
25) $x - 2y + 8 = 0$
 $-6 - 2y = -x$



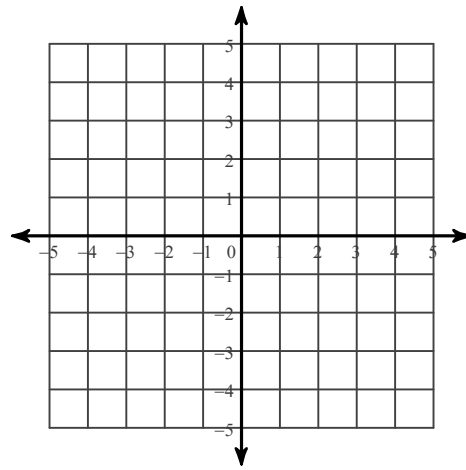
26) $-2y - 5x = 2$
 $-5x = 2y - 4$



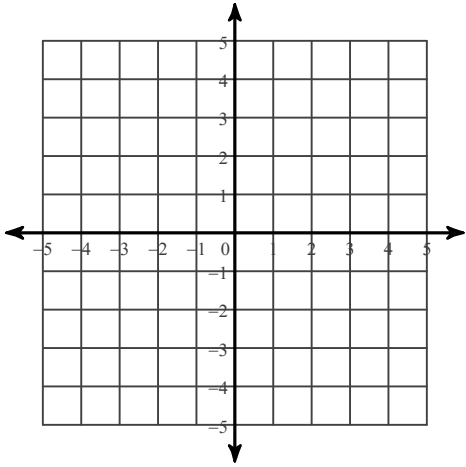
$$27) \begin{aligned} 2y + x - 4 &= 0 \\ 2y &= -x + 4 \end{aligned}$$



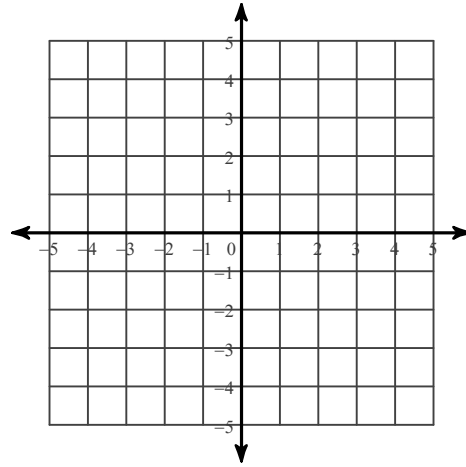
$$28) \begin{aligned} -4 &= -2y \\ 4 + 6x &= -y \end{aligned}$$



$$29) \begin{aligned} -2x &= -8 - 2y \\ -2y - 8 &= -2x \end{aligned}$$



$$30) \begin{aligned} 2y + 4 + 3x &= 0 \\ -2y &= 8 + 3x \end{aligned}$$



Answers to Solving Systems of Equations by Graphing

- | | | | |
|----------------------------------|-----------------|----------------------------------|----------------|
| 1) $(1, -1)$ | 2) $(3, -4)$ | 3) $(3, -2)$ | 4) $(-1, -3)$ |
| 5) $(-3, 3)$ | 6) $(-4, 4)$ | 7) $(3, 1)$ | 8) $(-1, -2)$ |
| 9) $(2, 1)$ | 10) $(4, 4)$ | 11) $(1, -1)$ | 12) $(4, 2)$ |
| 13) $(-1, 4)$ | 14) $(-2, -4)$ | 15) $(1, -1)$ | 16) $(3, 3)$ |
| 17) $(-3, -3)$ | 18) $(-4, 4)$ | 19) $(2, 3)$ | 20) $(-3, -2)$ |
| 21) $(-1, -2)$ | 22) $(1, 1)$ | 23) $(-4, 4)$ | |
| 24) Infinite number of solutions | 25) No solution | 26) No solution | |
| 27) Infinite number of solutions | 28) $(-1, 2)$ | 29) Infinite number of solutions | |
| 30) No solution | | | |