

## Practice Quiz 3.3 Solving systems using substitution

**Solve each system by substitution.**

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

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

3) 
$$\begin{aligned}6x - 6y &= 18 \\x - 5y &= 7\end{aligned}$$

4) 
$$\begin{aligned}2x + y &= 6 \\3x - y &= -6\end{aligned}$$

5) 
$$\begin{aligned}15x - 18y &= -9 \\5x - 6y &= -3\end{aligned}$$

6) 
$$\begin{aligned}5x + 3y &= -2 \\2x + 4y &= 16\end{aligned}$$

## Practice Quiz 3.3 Solving systems using substitution

**Solve each system by substitution.**

1)  $y = -2x - 1$

$y = -4x - 1$

(0, -1)

2)  $2x - y = -4$

$y = x + 2$

(-2, 0)

3)  $6x - 6y = 18$

$x - 5y = 7$

(2, -1)

4)  $2x + y = 6$

$3x - y = -6$

(0, 6)

5)  $15x - 18y = -9$

$5x - 6y = -3$

Infinite number of solutions

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

$2x + 4y = 16$

(-4, 6)