

Solve each system by substitution.

1) 9)  $-6x + 5y = -7$   
 2)  $6x + y = -23$

Feb. 23

Isolate  $y$  in (2)

$$6x + y = -23$$

$$y = -6x - 23$$

$$\frac{-36x = 108}{-36} \quad \frac{-36}{-36}$$

$$x = -3$$

Substitute in (1)

$$-6x + 5y = -7$$

$$-6x + 5(-6x - 23) = -7$$

$$-6x - 30x - 115 = -7$$

$$-36x - 115 = -7$$

$$-36x = +108$$

$$x = -3$$

- Question numbers
- Show answers
- Directions
- Changing questions hides answers
- Lines
- Zoom:

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1-up

Solve each system by substitution.

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

$+ 8y$   
 $x - 8y = 2$   
 $x = 8y + 2$

$x - 3y = -2$   
 $(8y + 2) - 3y = -2$   
 $5y + 2 = -2$   
 $5y = -4$   
 $y = -\frac{4}{5}$

$y = 0$



POI

(2, 0)

~~$x - 8y = 2$~~   
 ~~$x = 8(0) = 2$~~   
 $x = 2$

$-x - 3y = -2$   
 $-(2) - 3(0) = -2$   
 $-2 - 0 = -2$   
 $-2 = -2$  ✓