Systems of equations — By elimination

Name: _____ Date: _____

Solve each pair by adding the two equations. Give x and y.

1

$-8x + 10y = -20$ x = ___
$10x - 10y = 30$ y = ___

2

$-10x + 6y = -54$ x = ___
$-5x - 6y = 54$ y = ___

3

$10x + 9y = -6$ x = ___
$8x - 9y = 60$ y = ___

4

$6x + 2y = 40$ x = ___
$10x - 2y = 8$ y = ___

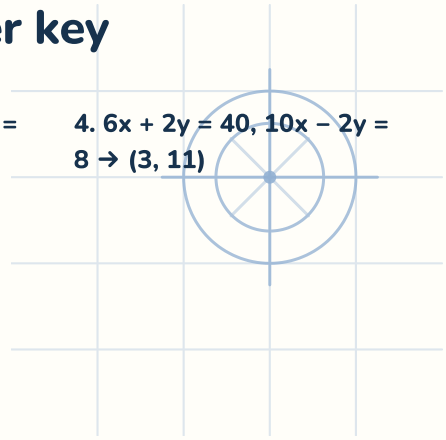
5

$2x + 5y = -4$ x = ___
$10x - 5y = 40$ y = ___

6

$8x + 2y = 16$ x = ___
$12x - 2y = 24$ y = ___

Systems of equations · By elimination — Answer key



1. $-8x + 10y = -20$, $10x - 10y = 30$ → (5, 2)

2. $-10x + 6y = -54$, $-5x - 6y = 54$ → (0, −9)

3. $10x + 9y = -6$, $8x - 9y = 60$ → (3, −4)

4. $6x + 2y = 40$, $10x - 2y = 8$ → (3, 11)

5. $2x + 5y = -4$, $10x - 5y = 40$ → (3, −2)

6. $8x + 2y = 16$, $12x - 2y = 24$ → (2, 0)