

Algebraic Expressions

Answer Key

1.) $3x + 2y - 5x + 4y = \underline{-2x + 6y}$

2.) $2a + 3b - 4a + 5b - 2a = \underline{-4a + 8b}$

3.) $4x - 2y + 3x + 5y - 7x = \underline{3y}$

4.) $3m - 2n + 5m + 4n - 2m - n = \underline{6m + n}$

5.) $3(x+2) = \underline{3x + 6}$

6.) $2(3x - 5) = \underline{6x - 10}$

7.) $4(2y + 3) = \underline{8y + 12}$

8.) $5(2a - 4) = \underline{10a - 20}$

Answer Key

9.) $3x + 7 = 16$

$\underline{x=3}$

10.) $2y - 5 = 11$

$\underline{y=8}$

11.) $2(3x - 4) + 5 = 17$

$x = \frac{10}{3} \text{ or } 3\frac{1}{3}$

12.) $3(y + 2) - 4 = 5y + 7$

$y = \frac{-5}{2} \text{ or } -2\frac{1}{2}$

13.) $4(a - 3) + 2a = 5a - 6$

$\underline{a=6}$

