

# Worksheet

01/18/2020

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Problem quickname: 7517

1)

Expand the term and combine like terms. Apply the binomic formulas.

Quick:  
7517

- a)  $(4b - 3a)^2 = 9a^2 - 24ab + 16b^2$       b)  $(3y + 4x)(3y - 4x) = 9y^2 - 16x^2$   
 c)  $(8b + 4a)(8b - 4a) = 64b^2 - 16a^2$       d)  $(4y - 5x)^2 = 25x^2 - 40xy + 16y^2$   
 e)  $(3x - 2y)^2 = 9x^2 - 12xy + 4y^2$       f)  $(7y + 9x)^2 = 81x^2 + 126xy + 49y^2$   
 g)  $(7b + 6a)^2 = 36a^2 + 84ab + 49b^2$       h)  $(7y + 3x)(7y - 3x) = 49y^2 - 9x^2$   
 i)  $(2a + 7b)(2a - 7b) = 4a^2 - 49b^2$       j)  $(6a + 9b)^2 = 36a^2 + 108ab + 81b^2$

2)

Expand the term and combine like terms. Apply the binomic formulas.

Quick:  
7517

- a)  $(-5b + 3a)((-5)b - 3a) = 25b^2 - 9a^2$       b)  $(9a - 4b)^2 = 81a^2 - 72ab + 16b^2$   
 c)  $(-3a + 8b)^2 = 9a^2 - 48ab + 64b^2$   
 d)  $(-9a + 4b)((-9)a - 4b) = 81a^2 - 16b^2$   
 e)  $(8a - 4b)^2 = 64a^2 - 64ab + 16b^2$       f)  $(4b - (-3)a)^2 = 9a^2 + 24ab + 16b^2$   
 g)  $(2b - 8a)^2 = 64a^2 - 32ab + 4b^2$       h)  $(5y - (-7)x)^2 = 49x^2 + 70xy + 25y^2$   
 i)  $(4x + 4y)(4x - 4y) = 16x^2 - 16y^2$   
 j)  $(-6x - (-3)y)^2 = 36x^2 - 36xy + 9y^2$

3)

Expand the term and combine like terms. Apply the binomic formulas.

Quick:  
7517

- a)  $(10b + 10a)(10b - 10a) = 100b^2 - 100a^2$   
 b)  $(7y + 6x)^2 = 36x^2 + 84xy + 49y^2$       c)  $(3y - 5x)^2 = 25x^2 - 30xy + 9y^2$   
 d)  $(4x - 7y)^2 = 16x^2 - 56xy + 49y^2$       e)  $(4b - 4a)^2 = 16a^2 - 32ab + 16b^2$   
 f)  $(6y + 8x)^2 = 64x^2 + 96xy + 36y^2$       g)  $(7a - 5b)^2 = 49a^2 - 70ab + 25b^2$   
 h)  $(5x + 3y)^2 = 25x^2 + 30xy + 9y^2$       i)  $(6x + 7y)^2 = 36x^2 + 84xy + 49y^2$   
 j)  $(7x + 7y)(7x - 7y) = 49x^2 - 49y^2$

4)

Expand the term and combine like terms. Apply the binomic formulas.

Quick:  
7517

- a)  $(-6x - 3y)^2 = 36x^2 + 36xy + 9y^2$       b)  $(8a - (-3)b)^2 = 64a^2 + 48ab + 9b^2$   
 c)  $(5y + (-6)x)^2 = 36x^2 - 60xy + 25y^2$   
 d)  $(6a + 9b)^2 = 36a^2 + 108ab + 81b^2$       e)  $(-4a - (-3)b)^2 = 16a^2 - 24ab + 9b^2$

f)  $(-9y - 9x)^2 = 81x^2 + 162xy + 81y^2$

g)  $(7a - 2b)^2 = 49a^2 - 28ab + 4b^2$

h)  $(2y + 10x)^2 = 100x^2 + 40xy + 4y^2$

i)  $(8b + (-9)a)^2 = 81a^2 - 144ab + 64b^2$

j)  $(-9b + 10a)^2 = 100a^2 - 180ab + 81b^2$

Good Luck!