

# 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)  $(6x + 2y)^2 = 36x^2 + 24xy + 4y^2$       b)  $(6x - 10y)^2 = 36x^2 - 120xy + 100y^2$   
 c)  $(6b + 3a)^2 = 9a^2 + 36ab + 36b^2$       d)  $(2a - 8b)^2 = 4a^2 - 32ab + 64b^2$   
 e)  $(9x - 6y)^2 = 81x^2 - 108xy + 36y^2$       f)  $(6a - 3b)^2 = 36a^2 - 36ab + 9b^2$   
 g)  $(6b + 8a)^2 = 64a^2 + 96ab + 36b^2$       h)  $(5x + 4y)(5x - 4y) = 25x^2 - 16y^2$   
 i)  $(8a + 5b)(8a - 5b) = 64a^2 - 25b^2$       j)  $(6b - 10a)^2 = 100a^2 - 120ab + 36b^2$

2)

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

Quick:  
7517

- a)  $(-6b + 2a)((-6)b - 2a) = 36b^2 - 4a^2$   
 b)  $(-5x - 2y)^2 = 25x^2 + 20xy + 4y^2$       c)  $(-2y - 9x)^2 = 81x^2 + 36xy + 4y^2$   
 d)  $(9b - 7a)^2 = 49a^2 - 126ab + 81b^2$   
 e)  $(8x + (-8)y)(8x - (-8)y) = 64x^2 - 64y^2$   
 f)  $(8a - 6b)^2 = 64a^2 - 96ab + 36b^2$       g)  $(-7b + (-6)a)^2 = 36a^2 + 84ab + 49b^2$   
 h)  $(7a - (-8)b)^2 = 49a^2 + 112ab + 64b^2$       i)  $(2b - (-2)a)^2 = 4a^2 + 8ab + 4b^2$   
 j)  $(-7a + (-6)b)^2 = 49a^2 + 84ab + 36b^2$

3)

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

Quick:  
7517

- a)  $(5b + 8a)(5b - 8a) = 25b^2 - 64a^2$       b)  $(5a - 8b)^2 = 25a^2 - 80ab + 64b^2$   
 c)  $(9b - 5a)^2 = 25a^2 - 90ab + 81b^2$       d)  $(6y + 3x)(6y - 3x) = 36y^2 - 9x^2$   
 e)  $(6a - 3b)^2 = 36a^2 - 36ab + 9b^2$       f)  $(5y - 3x)^2 = 9x^2 - 30xy + 25y^2$   
 g)  $(10a - 6b)^2 = 100a^2 - 120ab + 36b^2$       h)  $(4y + 9x)^2 = 81x^2 + 72xy + 16y^2$   
 i)  $(6b - 3a)^2 = 9a^2 - 36ab + 36b^2$       j)  $(8b - 6a)^2 = 36a^2 - 96ab + 64b^2$

4)

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

Quick:  
7517

- a)  $(9y - (-5)x)^2 = 25x^2 + 90xy + 81y^2$   
 b)  $(6a + (-5)b)^2 = 36a^2 - 60ab + 25b^2$   
 c)  $(-9y - (-4)x)^2 = 16x^2 - 72xy + 81y^2$

d)  $(9a + (-5)b)^2 = 81a^2 - 90ab + 25b^2$

f)  $(8x + (-3)y)^2 = 64x^2 - 48xy + 9y^2$

h)  $(2b - (-9)a)^2 = 81a^2 + 36ab + 4b^2$

j)  $(-8x - 10y)^2 = 64x^2 + 160xy + 100y^2$

e)  $(-6b - 4a)^2 = 16a^2 + 48ab + 36b^2$

g)  $(9x - 5y)^2 = 81x^2 - 90xy + 25y^2$

i)  $(-8a + 3b)^2 = 64a^2 - 48ab + 9b^2$

Good Luck!