

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) $(5y + 4x)(5y - 4x) = 25y^2 - 16x^2$ b) $(4y - 9x)^2 = 81x^2 - 72xy + 16y^2$
 c) $(6x + 5y)^2 = 36x^2 + 60xy + 25y^2$ d) $(6y - 3x)^2 = 9x^2 - 36xy + 36y^2$
 e) $(10a - 4b)^2 = 100a^2 - 80ab + 16b^2$ f) $(6b + 5a)^2 = 25a^2 + 60ab + 36b^2$
 g) $(8b + 3a)(8b - 3a) = 64b^2 - 9a^2$ h) $(7b - 9a)^2 = 81a^2 - 126ab + 49b^2$
 i) $(9x + 3y)^2 = 81x^2 + 54xy + 9y^2$ j) $(9x + 5y)^2 = 81x^2 + 90xy + 25y^2$

2)

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

Quick:
7517

- a) $(8a - 7b)^2 = 64a^2 - 112ab + 49b^2$
 b) $(-3b + 6a)((-3)b - 6a) = 9b^2 - 36a^2$ c) $(3x - 9y)^2 = 9x^2 - 54xy + 81y^2$
 d) $(9a - (-4)b)^2 = 81a^2 + 72ab + 16b^2$
 e) $(-7x + (-8)y)^2 = 49x^2 + 112xy + 64y^2$
 f) $(4a + 7b)(4a - 7b) = 16a^2 - 49b^2$
 g) $(9x + (-9)y)(9x - (-9)y) = 81x^2 - 81y^2$
 h) $(4b + (-2)a)(4b - (-2)a) = 16b^2 - 4a^2$
 i) $(8b + (-9)a)^2 = 81a^2 - 144ab + 64b^2$
 j) $(-3y - (-3)x)^2 = 9x^2 - 18xy + 9y^2$

3)

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

Quick:
7517

- a) $(9y + 9x)(9y - 9x) = 81y^2 - 81x^2$ b) $(7x + 6y)^2 = 49x^2 + 84xy + 36y^2$
 c) $(10y + 5x)(10y - 5x) = 100y^2 - 25x^2$
 d) $(10y + 6x)(10y - 6x) = 100y^2 - 36x^2$ e) $(3y + 7x)^2 = 49x^2 + 42xy + 9y^2$
 f) $(6x - 7y)^2 = 36x^2 - 84xy + 49y^2$ g) $(6a - 9b)^2 = 36a^2 - 108ab + 81b^2$
 h) $(9b - 5a)^2 = 25a^2 - 90ab + 81b^2$ i) $(7y - 6x)^2 = 36x^2 - 84xy + 49y^2$
 j) $(7y + 6x)^2 = 36x^2 + 84xy + 49y^2$

4)

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

Quick:
7517

- a) $(10b + 4a)^2 = 16a^2 + 80ab + 100b^2$

b) $(-6y + 9x)^2 = 81x^2 - 108xy + 36y^2$

c) $(8y - (-8)x)^2 = 64x^2 + 128xy + 64y^2$

e) $(4a - (-8)b)^2 = 16a^2 + 64ab + 64b^2$

f) $(-3a + (-4)b)^2 = 9a^2 + 24ab + 16b^2$

h) $(-2x - (-9)y)^2 = 4x^2 - 36xy + 81y^2$

i) $(-5b + 4a)^2 = 16a^2 - 40ab + 25b^2$

d) $(2a - 4b)^2 = 4a^2 - 16ab + 16b^2$

g) $(5a - 6b)^2 = 25a^2 - 60ab + 36b^2$

j) $(-2a + (-5)b)^2 = 4a^2 + 20ab + 25b^2$

Good Luck!