

Worksheet

01/17/2020

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Problem quickname: 6896

1)

Every term is the expanded form of a binomic formula. Specify the binomial form.

- a) $a^2 + 2ab + b^2 = (b + a)^2$ b) $a^2 - b^2 = (a + b)(a - b)$
 c) $a^2 - 4a + 4 = (a - 2)^2$ d) $x^2 - 2xy + y^2 = (y - x)^2$
 e) $x^2 - 40x + 400 = (20 - x)^2$ f) $a^2 - 18a + 81 = (9 - a)^2$
 g) $x^2 - 2xy + y^2 = (x - y)^2$ h) $x^2 + 30x + 225 = (15 + x)^2$
 i) $a^2 + 38a + 361 = (19 + a)^2$ j) $b^2 - a^2 = (b + a)(b - a)$

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2)

Every term is the expanded form of a binomic formula. Specify the binomial form.

- a) $x^2 + 2xy + y^2 = (x + y)^2$ b) $x^2 - 2xy + y^2 = (x - y)^2$
 c) $x^2 - y^2 = (x + y)(x - y)$ d) $x^2 - 24x + 144 = (x - 12)^2$
 e) $a^2 - 6a + 9 = (a - 3)^2$ f) $a^2 - 40a + 400 = (20 - a)^2$
 g) $b^2 - a^2 = (b + a)(b - a)$ h) $a^2 - 16a + 64 = (8 - a)^2$
 i) $x^2 - 6x + 9 = (3 - x)^2$ j) $a^2 + 34a + 289 = (17 + a)^2$

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3)

Every term is the expanded form of a binomic formula. Specify the binomial form.

- a) $x^2 - 8x + 16 = (x - 4)^2$ b) $a^2 - 38a + 361 = (19 - a)^2$
 c) $a^2 + 22a + 121 = (11 + a)^2$ d) $x^2 - 26x + 169 = (13 - x)^2$
 e) $a^2 + 2ab + b^2 = (b + a)^2$ f) $a^2 + 12a + 36 = (a + 6)^2$
 g) $a^2 + 28a + 196 = (a + 14)^2$ h) $x^2 + 8x + 16 = (x + 4)^2$
 i) $a^2 + 38a + 361 = (a + 19)^2$ j) $a^2 + 34a + 289 = (a + 17)^2$

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4)

Every term is the expanded form of a binomic formula. Specify the binomial form.

- a) $a^2 + 2ab + b^2 = (b + a)^2$ b) $289 - a^2 = (17 + a)(17 - a)$
 c) $49 - x^2 = (7 + x)(7 - x)$ d) $a^2 - 2ab + b^2 = (b - a)^2$
 e) $x^2 - 24x + 144 = (12 - x)^2$ f) $x^2 - 2xy + y^2 = (y - x)^2$
 g) $a^2 - b^2 = (a + b)(a - b)$ h) $a^2 - 2ab + b^2 = (a - b)^2$
 i) $y^2 - x^2 = (y + x)(y - x)$ j) $a^2 - 20a + 100 = (10 - a)^2$

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Good Luck!