

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) $b^2 - a^2 = (b + a)(b - a)$ b) $a^2 - 30a + 225 = (15 - a)^2$
 c) $x^2 - 2xy + y^2 = (x - y)^2$ d) $a^2 - b^2 = (a + b)(a - b)$
 e) $x^2 - 225 = (x + 15)(x - 15)$ f) $a^2 - 26a + 169 = (13 - a)^2$
 g) $a^2 + 10a + 25 = (5 + a)^2$ h) $x^2 - y^2 = (x + y)(x - y)$
 i) $a^2 - 28a + 196 = (a - 14)^2$ j) $a^2 - 8a + 16 = (4 - a)^2$

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2)

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

- a) $a^2 + 2ab + b^2 = (a + b)^2$ b) $a^2 - 2ab + b^2 = (a - b)^2$
 c) $a^2 + 2ab + b^2 = (b + a)^2$ d) $a^2 + 32a + 256 = (a + 16)^2$
 e) $x^2 + 2xy + y^2 = (y + x)^2$ f) $x^2 - 30x + 225 = (x - 15)^2$
 g) $a^2 - 2ab + b^2 = (b - a)^2$ h) $x^2 - 2xy + y^2 = (y - x)^2$
 i) $x^2 + 12x + 36 = (6 + x)^2$ j) $a^2 + 20a + 100 = (10 + a)^2$

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3)

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

- a) $x^2 - 324 = (x + 18)(x - 18)$ b) $x^2 + 26x + 169 = (x + 13)^2$
 c) $a^2 - 30a + 225 = (a - 15)^2$ d) $a^2 - 2ab + b^2 = (a - b)^2$
 e) $b^2 - a^2 = (b + a)(b - a)$ f) $a^2 - 2ab + b^2 = (b - a)^2$
 g) $y^2 - x^2 = (y + x)(y - x)$ h) $x^2 - 2xy + y^2 = (x - y)^2$
 i) $a^2 - 12a + 36 = (6 - a)^2$ j) $a^2 - 18a + 81 = (a - 9)^2$

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4)

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

- a) $a^2 + 36a + 324 = (18 + a)^2$ b) $x^2 + 16x + 64 = (x + 8)^2$
 c) $x^2 - y^2 = (x + y)(x - y)$ d) $a^2 - 144 = (a + 12)(a - 12)$
 e) $x^2 - 26x + 169 = (x - 13)^2$ f) $x^2 + 2xy + y^2 = (y + x)^2$
 g) $a^2 + 16a + 64 = (8 + a)^2$ h) $x^2 - 32x + 256 = (x - 16)^2$
 i) $a^2 - 38a + 361 = (19 - a)^2$ j) $a^2 - 6a + 9 = (a - 3)^2$

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Good Luck!