

# Worksheet

01/19/2020

Free on dw-math.com

Problem quickname: 1825

1)

There is a binomic formula hidden in this term. Convert the binomic term to the product form.

- a)  $2ab + b^2$       b)  $a^3 - 225a$       c)  $648 - 8x^2$       d)  $3x^2 - 90x + 675$   
e)  $x^3 - 2x^2y + xy^2$       f)  $x^3 + 2x^2y + xy^2$       g)  $2x^2 - 16x + 64$   
h)  $2a^2 + 4ab + 2b^2$       i)  $231 - a^2$       j)  $x^2 + xy + y^2$

2)

There is a binomic formula hidden in this term. Convert the binomic term to the product form. You may have to extract factors.

- a)  $x^3 - 30x^2 + 225x$       b)  $a^3 + 32a^2 + 256a$       c)  $x^3 - 2x^2y + xy^2$   
d)  $x^3 - 36x^2 + 324x$       e)  $a^3 - 2a^2b + ab^2$       f)  $x^3 - 18x^2 + 81x$   
g)  $x^3 - 22x^2 + 121x$       h)  $a^3 - 9a$       i)  $x^3 - xy^2$       j)  $x^3 + 30x^2 + 225x$

3)

There is a binomic formula hidden in this term. Convert the binomic term to the product form. You may have to extract summands.

- a)  $x^2 - y^2 + 8$       b)  $a^2 - 189$       c)  $x^2 - 2xy + y^2 + 8$       d)  $a^2 + 14a + 54$   
e)  $x^2 + 22x + 123$       f)  $x^2 + 2xy + y^2 + 2$       g)  $x^2 - 2xy + y^2 + 9$   
h)  $a^2 - b^2 + 7$       i)  $a^2 + 16a + 70$       j)  $a^2 + 2ab + b^2 + 5$

4)

There is a binomic formula hidden in this term. Convert the binomic term to the product form.

- a)  $38a + 361$       b)  $2x^2 + 2xy + y^2$       c)  $x^2 + 13x + 169$   
d)  $x^3 + 16x^2 + 64x$       e)  $2x^2 + 2xy + y^2$       f)  $2x^2 + 26x + 169$   
g)  $9x^2 + 360x + 3600$       h)  $a^2 + 10a + 20$       i)  $x^3 + 38x^2 + 361x$   
j)  $a^2 + 40a + 407$

Good Luck!