

Worksheet

01/26/2020

Free on dw-math.com

Problem quickname: 1444

1)

Simplify, remove the parentheses by multiplying out and combine like terms.

- a) $4(b + a)^2$ b) $(x + 3)^2x$ c) $(x - 15)^2x$ d) $(5 + x)^2x$
e) $(a + b)^2 \cdot 4$ f) $(b + a)(b - a)2$ g) $x(x + 15)^2$ h) $a(a - b)^2$
i) $3(a + b)^2$ j) $3(11 - a)^2$

2)

Simplify, remove the parentheses by multiplying out and combine like terms.

- a) $(a - 4)^2 - a^2$ b) $(a - b)^2 - ba$ c) $(x - y)^2 - yx$
d) $a^2 + (a + 16)(a - 16)$ e) $ab + (b - a)^2$ f) $(2 - x)^2 - 2x$
g) $(x + 7)(x - 7) + 7x$ h) $7x + (7 + x)^2$ i) $(y + x)^2 - xy$
j) $x^2 + (x - 20)^2$

3)

Simplify, remove the parentheses by multiplying out and combine like terms.

- a) $8(b + a)^2$ b) $7(a + 6)^2$ c) $(a - b)^2 \cdot 3$ d) $(11 + a)^2 \cdot 5$
e) $(x + y)^2 \cdot 7$ f) $8(x + y)^2$ g) $(14 - a)^2 \cdot 6$ h) $2(13 + x)^2$
i) $(4 + a)^2 \cdot 7$ j) $10(5 + x)^2$

4)

Simplify, remove the parentheses by multiplying out and combine like terms.

- a) $yx + (x + y)^2$ b) $3(b - a)^2$ c) $(x + 5)(x - 5) + x^2$
d) $8 + (b - a)^2$ e) $(y + x)(y - x) + xy$ f) $(x - 14)^2 + x^2$
g) $(20 - a)^2 - 4$ h) $(12 - a)^2 \cdot 7$ i) $(x - y)^2 + 10$ j) $8(b - a)^2$

Good Luck!