Worksheet

Free on dw-math.com

Problem quickname: 1595

<u>1)</u>

Expand the product as shown in example a).

a) $(c + e)(b - a) = c(b - a) + e(b - a) = -ac - ae + bc + be$
b) $(a - b)(c + d) =$ _____   c) $(b - c)(a + e) =$ _____
d) $(z - x)(v + y) =$ _____   e) $(z + y)(w - v) =$ _____
f) $(y - v)(x + z) =$ _____   g) $(y + w)(x + z) =$ _____
h) $(y + w)(v + x) =$ _____   i) $(a - d)(e + b) =$ _____
j) $(a + d)(b + c) =$ _____

<u>2)</u>

Expand the product as shown in example a).

a) $(a + c)(a - 6) = a(a - 6) + c(a - 6) = a^2 - 6a + ac - 6c$
b) $(e + a)(a - 18)$ c) $(e + 4)(a - b)$ d) $(a + e)(a - b)$
e) $(c - a)(a + b)$ f) $(x + w)(v + 6)$ g) $(a - 2)(a + b)$
h) $(c + d)(a - b)$ i) $(w - 15)(v + w)$ j) $(e + c)(a + b)$

<u>3)</u>

Expand the product as shown in example a).

a) $(v + w)(v + 15) = v(v + 15) + w(v + 15) = v^2 + 15v + vw + 15w$
b) $(a + 12)(a - 39)$ c) $(z + 15)(v - w)$ d) $(w + v)(v + 13)$
e) $(x + z)(v - w)$ f) $(b + d)(a + 49)$ g) $(y + x)(v - w)$
h) $(w + z)(v + w)$ i) $(c + d)(a + b)$ j) $(d + a)(a - b)$

<u>4)</u>

Expand the product as shown in example a).

a) $(d - a)(a + b) = d(a + b) - a(a + b) = -a^2 - ab + ad + bd$
b) $(c - d)(a + b) =$ _____   c) $(v + w)(v - w) =$ _____
d) $(b - 19)(a - b) =$ _____   e) $(w - z)(v - w) =$ _____
f) $(a - d)(a + 4) =$ _____   g) $(w - v)(v + w) =$ _____
h) $(a - d)(a + b) =$ _____   i) $(x - z)(v + 7) =$ _____
j) $(v - 5)(v + w) =$ _____

Good Luck!