

# Worksheet

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Problem quickname: 1595

1)

Expand the product as shown in example a).

a)  $(d + e)(a - b) = d(a - b) + e(a - b) = ad + ae - bd - be$

b)  $(d + b)(a - b)$       c)  $(e - 10)(a + b)$       d)  $(v + x)(v + 3)$

e)  $(e + b)(a - 10)$       f)  $(b + 19)(a + b)$       g)  $(z - 21)(v + w)$

h)  $(a + b)(a - b)$       i)  $(c + d)(a - b)$       j)  $(v + z)(v - 36)$

2)

Expand the product as shown in example a).

a)  $(x - z)(v + w) = x(v + w) - z(v + w) = vx - vz + wx - wz$

b)  $(d + b)(a - b) = \underline{\hspace{2cm}}$       c)  $(e + b)(a - b) = \underline{\hspace{2cm}}$

d)  $(y - v)(v - w) = \underline{\hspace{2cm}}$       e)  $(y - 5)(v - w) = \underline{\hspace{2cm}}$

f)  $(b + d)(a - b) = \underline{\hspace{2cm}}$       g)  $(w - x)(v + w) = \underline{\hspace{2cm}}$

h)  $(x + y)(v - w) = \underline{\hspace{2cm}}$       i)  $(w - 2)(v - w) = \underline{\hspace{2cm}}$

j)  $(x - v)(v + w) = \underline{\hspace{2cm}}$

3)

Expand the product as shown in example a).

a)  $(w + y)(z + x) = w(z + x) + y(z + x) = wx + wz + xy + yz$

b)  $(y + v)(w + 12)$       c)  $(v + x)(z + w)$       d)  $(x + v)(w + z)$

e)  $(b + d)(c + a)$       f)  $(c + d)(a + e)$       g)  $(b + e)(a + 13)$

h)  $(y + 13)(z + 16)$       i)  $(c + d)(a + 3)$       j)  $(d + 10)(e + c)$

4)

Expand the product as shown in example a).

a)  $(e + a)(d - b) = e(d - b) + a(d - b) = -ab + ad - be + de$

b)  $(c + e)(b - a) = \underline{\hspace{2cm}}$       c)  $(e + c)(a - b) = \underline{\hspace{2cm}}$

d)  $(d + c)(e - b) = \underline{\hspace{2cm}}$       e)  $(a + e)(c + b) = \underline{\hspace{2cm}}$

f)  $(b + d)(a - e) = \underline{\hspace{2cm}}$       g)  $(d + c)(a - b) = \underline{\hspace{2cm}}$

h)  $(c - e)(d + b) = \underline{\hspace{2cm}}$       i)  $(x + y)(z - w) = \underline{\hspace{2cm}}$

j)  $(x + z)(v + y) = \underline{\hspace{2cm}}$

Good Luck!