

Polynomial Worksheets

1. Use the distributive property to write each of the following expressions as the sum of monomials.

a) $3a(4 + a)$

b) $x(x + 2) + 1$

c) $\frac{1}{3}(12z + 18z^2)$

d) $4x(x^3 - 10)$

e) $(x - 4)(x + 5)$

f) $(2z - 1)(3z^2 + 1)$

g) $(10w - 1)(10w + 1)$

h) $(-5w - 3)w^2$

i) $16s^{100} \left(\frac{1}{2}s^{200} + 0.125s \right)$

j) $(2q + 1)(2q^2 + 1)$

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1. Use the distributive property to write each of the following expressions as the sum of monomials.

a) $3a(4 + a)$

$3a^2 + 12a$

b) $x(x + 2) + 1$

$x^2 + 2x + 1$

c) $\frac{1}{3}(12z + 18z^2)$

$6z^2 + 4z$

d) $4x(x^3 - 10)$

$4x^4 - 40x$

e) $(x - 4)(x + 5)$

$x^2 + x - 20$

f) $(2z - 1)(3z^2 + 1)$

$6z^3 - 3z^2 + 2z - 1$

g) $(10w - 1)(10w + 1)$

$100w^2 - 1$

h) $(-5w - 3)w^2$

$-5w^3 - 3w^2$

i) $16s^{100} \left(\frac{1}{2}s^{200} + 0.125s \right)$

$8s^{300} + 2s^{101}$

j) $(2q + 1)(2q^2 + 1)$

$4q^3 + 2q^2 + 2q + 1$