

ALGEBRAIC EXPRESSIONS (Review)

Expand the following using the distributive property.

a) $x(x+2)$	b) $7(x+2)$	c) $(x-6)x$
d) $5(x-6)$	e) $x(2x+4)$	f) $-10(2x+4)$

Evaluate each expression.

a) $3x + 14$ for $x = 12$	b) $7r - 3$ for $r = 9$	c) $24 - 2a$ for $a = -3$
d) $15 + 2k$ for $k = 10$	e) $x^2 - 1$ for $x = -2$	f) $x^3 + 2x^2 + 3$ for $x = -1$

Collect like terms and simplify.

a) $3x + 3y - 5x + 4y$	b) $x + 6x - 4 + 3xy - 1$
c) $12g^2 - 2gh + 7hg - 3h^2$	d) $3m + 4 - 4m^2 - 5m$

Determine the factors each number.

a) 36	b) 40	c) 32	d) 24	e) 18	f) 72
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Square each monomial.

a) $3x$	b) $5a^2$
c) $-2g$	d) $4p^4$

Determine a pair of integers that meet the following requirements.

a) Multiply to 24 b) Multiply to -25 c) Multiply to -32

Add to 10

Add to 0

Add to -4

Determine the y-intercept for each of the graphed lines

a)

c)

b)

d)

