ADDING

CONSTANTS

SUBTRACTING

VARIABLE

PolynOmial

Review

DEGREE

MULTIPLYING

COEFFICIENTS

DIVIDING

For the following polynomial

$$12x^5 - 5x^3 + 3xy^9 + 3 - 2y^4$$

Variable(s): _____

Coefficient(s): _____

Constant(s): _____

Degree: _____

# of terms: _____

For the following polynomial
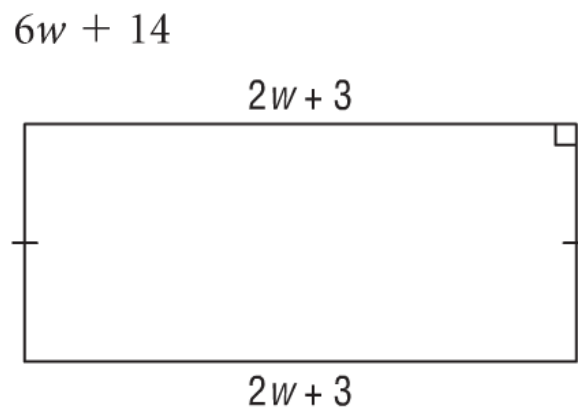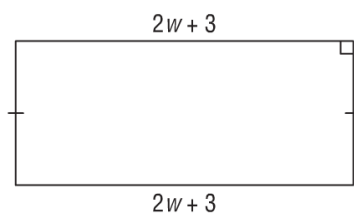$$12x^5 - 5x^3 + 3xy^9 + 3 - 2y^4$$

Variable(s): _____x & y_____

Coefficient(s): __12, -5, 3, -2_____

Constant(s): _____3_____

Degree: _____9_____

# of terms: _____5_____

The perimeter of each polygon is given.

$6w + 14$

$2w + 3$

$2w + 3$

a) Determine each unknown length.
b) If w = 2, what is the perimeter?

The perimeter of each polygon is given.

$6w + 14$

2*w* + 3

2*w* + 3

a) Determine each unknown length.

(6w + 14) - (2w + 3) - (2w + 3)

= 6w + 14 -2w -3 -2w -3

= 2w + 8

= $\dfrac{2w + 8}{2}$

= w + 4

b) If w = 2, what is the perimeter?

w + 4

= 2 + 4

= 6

The area of a rectangular drive is
$9d^2 + 3d$ square metres. The driveway
is 3d metres long.

a) Determine a polynomial that represents the width of the driveway.
b) If d = 4, what is the area, the width and the length

The area of a rectangular drive is
$9d^2 + 3d$ square metres. The driveway is 3d
metres long.

a) Determine a polynomial that represents the
width of the driveway.

$$9d^2 + 3d$$
$$3d$$
$$= 3d + 1$$

b) If d = 4, what is the area, the width
and the length

Width
$W = 3d + 1$
$= 3(4) + 1$
$= 12 + 1$
$= 13 m$

Length
$L = 3d$
$= 3(4)$
$= 12 m$

$A = L \times W$
$= 12 \times 13$
$= 156 m^2$

Write a Binomial that matches the description:
Variables: p and r, Degree: 6;   Constant: -5

$$3pr^6 - 5$$

Simplify:

a) $(12x^3 + 4x^2 - 2x) \div 2x$

$$\frac{12x^3}{2x} + \frac{4x^2}{2x} - \frac{2x}{2x}$$

$$= 6x^2 + 2x - 1$$

b) $5x(x^2 - 3xy + 5x)$

$$5x^3 - 15x^2y + 25x^2$$