Unit 1 Review Examples

Conversions

K H D b d c m

Convert 50 centimeters to decameters 1000 cm = 1 Dm

50 cm

0.050 decameters

Convert 250 inches per sec to miles per hour

$\frac{250 \text{ in}}{1 \text{ sec}} * \frac{1 \text{ ft}}{12 \text{ in}} * \frac{1 \text{ mile}}{5280 \text{ ft}} * \frac{60 \text{ sec}}{1 \text{ min}} * \frac{60 \text{ min}}{1 \text{ hr}} = \frac{900{,}000}{63360} = 14.2$ mph

If have 1000 milliliters and need 2 Liters for a science experiment, will you have enough?

1000 mL = 1L

1,000 mL

1 L, NO.

Polynomials

Simplify the polynomial. Classify by degree and term, then list the coefficients and constants.

$$(5 + 6b^2 + b^3) - (6b^3 + 3 + 4b^2)$$

$5 + 6b^2 + b^3 - 6b^3 - 3 - 4b^2$

$\boxed{-5b^3 + 2b^2 + 2}$

Degree: 3 cubic

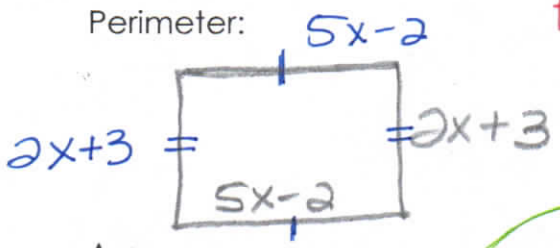
Term: 3 tri

Coefficients: -5, 2

Constant: 2

Find the perimeter and the area of a rectangle with a length of (5x – 2) and a width (2x +3).

Perimeter:



$P = 2(5x - 2) + 2(2x + 3)$

$P = 14x + 2$

Area:

$L \times W \rightarrow (5x^1 - 2)(2x^1 + 3)$

$10x^2 + 15x - 4x - 6$

$\boxed{10x^2 + 11x - 6}$