

## MTH052: Introduction To Algebra And Geometry

### MODULE ONE REVIEW ASSIGNMENT

*Do this assignment on another sheet of paper and show your work.*

(1-1) 1. Write  $\frac{1}{2}C^2m$  without exponents.

(1-4) 2. Evaluate  $5(2y - 3) + xy$  for  $x = 9$  and  $y = 4$

(1-4) 3. Substitute  $P = 1.3$  and  $r = 7$  into  $a = pr^3$  to determine the value of the unknown variable.

Simplify the following by performing any operations possible in exercises 4 – 8.

(2-1) 4.  $(2tv)(13t)$

(2-4) 7.  $6p - 2 + 5 - 3p$

(2-2) 5.  $\frac{(AB)^2}{3A^2}$

(2-5) 8.  $\frac{3c^2}{c} - 2c + 5$

(2-3) 6.  $1.8(4 + y)$

**Include the units of measurement** in evaluating the formulas for the given values in exercises 9 – 12.

(2-1) 9.  $V = \pi r^2 h$  if  $r = 2.5$  inches and  $h = 6$  inches

(2-2) 10.  $L = \frac{A}{w}$  when  $A = 39$  square meters and  $w = 6$  meters

(2-4) 11.  $s = B + b$  for  $B = 6.4$  inches and  $b = 4.7$  inches

(2-5) 12.  $A = W(L + 0.78W)$  when  $L = 100$  meters and  $W = 63.7$  meter