HOMEWORK: MATH INTERLUDES VI – SOLVING FORMULAS

Remember – neatness and completeness count. Also, you must show your work. The correct result without a sufficient amount of correct and appropriate work is worth zero points. Finally, please remember that you will have a cumulative Math Interludes Quiz covering Math Interludes I through VI on the day this assignment is due, so be sure to bring your calculator to class.

1) Solve the given formula for the indicated variable. Show your work.

$I = prt$ (solve for r)

2) Solve the given formula for the indicated variable. Show your work.

$V = \frac{4}{3}\pi \cdot r^3$ (solve for r^3)

3) Solve each of the following equations for y.

a) $4y + 12x = 24$ b) $6x - 3y = 12$

4) Solve for y: $\frac{y-a}{b} = x$

5) Given $z = \frac{x-\mu}{\sigma}$.

    a) If $z = \frac{x-\mu}{\sigma}$, find z when $x = 7.9$, $\mu = 2.5$, and $\sigma = 6.0$

    b) If $z = \frac{x-\mu}{\sigma}$, find x when $z = 1.85$, $\mu = 1.35$, and $\sigma = 2.4$

    c) If $z = \frac{x-\mu}{\sigma}$, find x when $z = 4.2$, $\mu = 9.4$, and $\sigma = 1.7$

Math Interludes VI Homework:

1) $r = \frac{I}{pt}$	2) $r^3 = \frac{3V}{4\pi}$	3a) $y = 6 - 3x$	3b) $y = -4 + 2x$
4) $y = a + bx$	5a) $z = 0.9$	5b) $x = 5.79$	5c) $x = 16.54$