Math 4B - HW 15

1) Write decimals as fractions and evaluate the following expressions:

$a.\ \frac{2}{3} + 0.5;$ $b.\ \frac{1}{3} \times 0.9;$ $c.\ \frac{3}{16} \times 0.16$

$d.\ 0.6 - \frac{2}{5};$ $e.\ 0.4 \div \frac{2}{7};$ $f.\ \frac{9}{20} \div 0.03$

2) Compute the following expressions.

$a.\ 1.32 + 0.5;$ $b.\ 0.09 \times 0.4;$ $c.\ 7.2. \times 0.13$

$d.\ 0.7 - 1.66$ $e.\ 4.32 \div 0.4;$ $f.\ .39 \div 0.013$

3) Using exponent laws, compute the following expressions:

a) $x^2 \times x^3$ b) $a^5 \times a^{-2}$ c) $\frac{x^7}{x^4}$

$d)$ $(x^2y^1)^3$ e) $a^2(a^2 + a + 1)$

4) Find the prime factorization, then the greatest common divisor and least common multiple of the following numbers:

a). … 16 and 12;

16 = _____

12 = _____

GCD(16, 12) = _____

LCM(16, 12) = _____

b). … 28 and 30;

28 = _____

30 = _____

GCD(28, 30) = _____

LCM(28, 30) = _____

c). … 196 and 21.

196 = _____

21 = _____

GCD(196, 21) = _____

LCM(196, 21) = _____

5) Using a compass and straight edge, draw at least 1 scalene, isosceles, and equilateral triangle.

   As always, feel free to be creative with this problem!