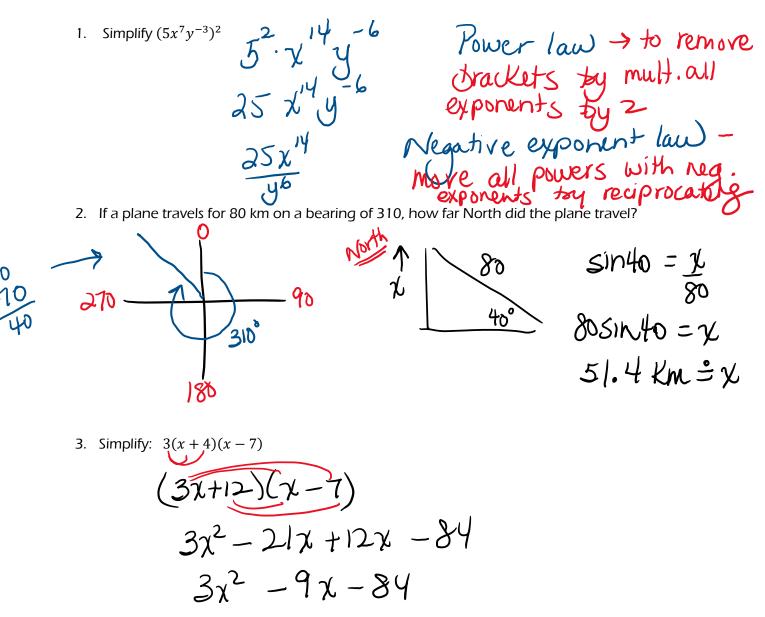
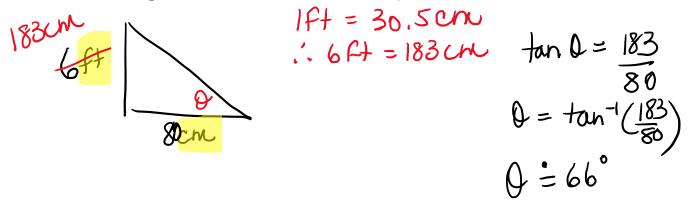
Math 10 Midterm review #4



4. What is the angle of elevation of the sun when a 6 ft person casts an 80 cm shadow?



5. A square has a perimeter of (8x – 12), write an expression for its area?

$$P = 8 \times -12$$

$$P = 8 \times -12$$

$$= (2 \times -3)^{2}$$

$$Side = 2 \times -3$$

$$Area = S^{2}$$

$$= (2 \times -3)^{2}$$

$$= (2 \times -3)(2 \times 3)$$

$$A = 4 \times -12 \times +9$$

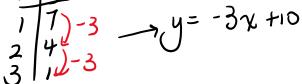
- 6. List all the groups each number belongs: rational, irrational, real, natural, whole, integer
 - a. 6 Q, R, N, WI b. ½ Q, R c. -2.8 Q, R d. √90 Q, R
- 7. Factor completely: $\begin{array}{c} x^{2} + 10x + 16 \quad (\chi + 8)(\chi + \gamma) \\ 2x^{2} + 10 \quad \rightarrow \quad \partial(\chi^{2} + 5) \\ x^{2} - 64 \quad \rightarrow \quad (\chi - 8)(\chi + 8) \\ 2x^{2} + 16x + 30 \quad \rightarrow \quad \partial(\chi^{2} + 8\chi + 15) \quad \rightarrow \quad \partial(\chi + 3)(\chi + 5) \end{array}$
- Determine the x and y intercepts for the relation 3x 5y = 128.

$$\begin{array}{rcl} x - int & (x, 0) & y - int & (0, y) \\ \hline 3x - 5y = 12 & 3x - 5y = 12 \\ 3x = 12 & -5y = 12 \\ x = 4 & y = \frac{12}{-5} \\ (4, 0) & (0, -12/5) & or & (0, -2, 4) \end{array}$$

9. What is the algebraic rule for the following relation: 7, 4, 1,? Is -66 a number in this is - 66 an output?-66 = -3x + 10-10 - 10pattern?

-76 = -37

 $\begin{array}{r} \underline{A} \\ \underline{$



Math 10 Foundations and Pre-calculus

otherwise x would Be a whole #.

Whok # zero Integers are positive only Ex 0,12,3,4...

10. What is the difference between a whole number and an integer? What is similar?