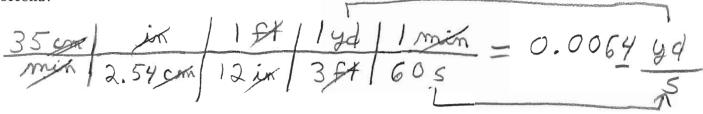
Show All Work To Receive Credit! Conversion factors and prefixes:

 $G=10^9,\,M=10^6,\,k=10^3,\,c=10^{-2},\,m=10^{-3},\,\mu=10^{-6},\,n=10^{-9}\,,\,2.54\,\,cm=1\,\,in,\\12\,\,in=1\,\,ft,\,5280\,\,ft=1\,\,mile,\,3\,\,feet=1\,\,yd,\,60\,\,sec=1\,\,min,\,1\,\,hr=60\,\,min,\,4\,\,quarts=1\,\,gal,\,2\,\,pints=1\,\,quart$

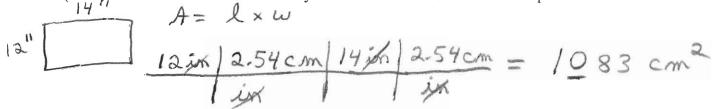
1. (6 Pts) A snail is traveling at a rate of 35 cm/minute. How fast is the snail going in yards per second?



2. (4 Pts) Convert each of the following to scientific notation <u>WITHOUT</u> the use of prefixes:

b.
$$7.2 \times 10^4 \, \mu \, \text{meters} = \frac{7.2 \times 10^{-2}}{1.2 \times 10^{-2}} \, \text{meters}$$

3. (5 Pts), A room measures 12 inches by 14 inches. Determine its area in square cm.



4. (5 Pts) How many pints are in 47 gallons?

5. (5 Pts) A sample of silver ore was found to contain 0.46 % silver by mass. How many grams of silver can be recovered 400.0 kg of ore?

|--|

Show All Work To Receive Credit! Conversion factors and prefixes:

 $G=10^9,\,M=10^6,\,k=10^3,\,c=10^{-2},\,m=10^{-3},\,\mu=10^{-6},\,n=10^{-9}\,,\,2.54\,\,cm=1\,\,in,\\12\,\,in=1\,\,ft,\,5280\,\,ft=1\,\,mile,\,3\,\,feet=1\,\,yd,\,60\,\,sec=1\,\,min,\,1\,\,hr=60\,\,min,\,4\,\,quarts=1\,\,gal,\,2\,\,pints=1\,\,quart$

1. (6 Pts) A snail is traveling at a rate of 55 cm/minute. How fast is the snail going in yards per second?

- 2. (4 Pts) Convert each of the following to scientific notation without the use of prefixes:
 - a. 47 centi milli nano feet = feet
 - b. $7.2 \times 10^5 \,\mu$ meters = _____ meters
- 3. (5 Pts) A room measures 13 inches by 14 inches. Determine its area in square cm.

- 4. (5 Pts) How many pints are in 67 gallons of water?
- 5. (5 Pts) A sample of silver ore was found to contain 0.046 % silver by mass. How many grams of silver can be recovered 400.0 kg of ore?