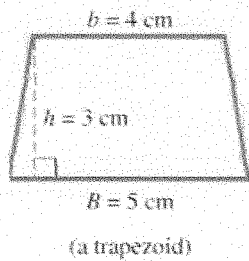


# Chapter 9 Scanned Homework #2

## Contemporary Math

All work and any formulas used must be shown for problems involving a process.

1. Find the area. (4 points)

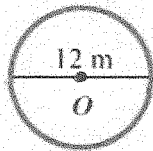


$$13.5 \text{ cm}^2$$

$$A = \frac{1}{2} (b + B) h$$

$$\begin{aligned} & \left( \frac{1}{2} \times 4 \times 3 \right) + \left( \frac{1}{2} \times 5 \times 3 \right) = 13.5 \\ & (4 \cdot 3) + \left( \frac{1}{2} \cdot 5 \cdot 3 \right) = 13.5 \end{aligned}$$

2. Find the area and circumference. Use 3.14 for  $\pi$ . (4 points each).



Area:

$$113.04 \text{ m}^2$$

$$A = \pi r^2$$

$$A = 3.14 \times 6^2$$

$$A = 113.04 \text{ m}^2$$

Circumference:

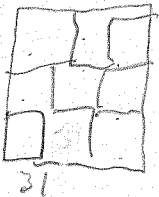
$$18.84 \text{ m}$$

$$C = \pi r$$

$$C = 3.14 \cdot 6$$

$$C = 18.84 \text{ m}$$

3. A carpet cleaner uses 8 oz of shampoo to clean an area 31 ft by 31 ft. How much shampoo would be needed for an area 93 ft by 93 ft? (4 points)



$$\frac{93}{31} = 3$$

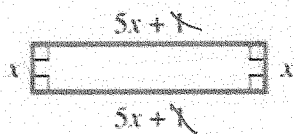
$$8 \text{ oz for } 31 \text{ ft}^2$$

$$8 \times 3 = 24 \text{ oz}$$

$$8 \cdot 9 = 72 \text{ oz Shampoo}$$

4. Find the value of  $x$ . (4 points)

$$P = 278$$



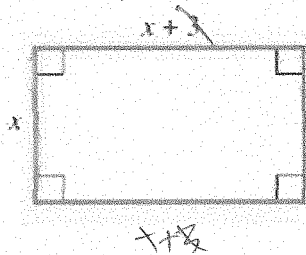
$$276 - 1$$

$$x = 23$$

$$\begin{array}{r} 23 \\ \times 10 \\ \hline 230 \\ + 23 \\ \hline 253 \\ + 23 \\ \hline 276 \end{array}$$

5. Find the value of  $x$ . (6 points)

$$A = 2822$$



$$x = 5.5$$

$$\begin{array}{r} 5.5 \\ \times 4 \\ \hline 22 \\ + 6 \\ \hline 28 \end{array}$$