Review of Area formulas:

Area of a Rectangle: $A = l \times w$

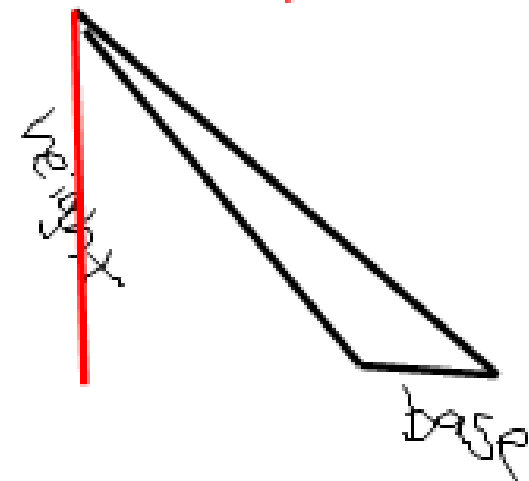Area of a Triangle: $A = \dfrac{bh}{2}$
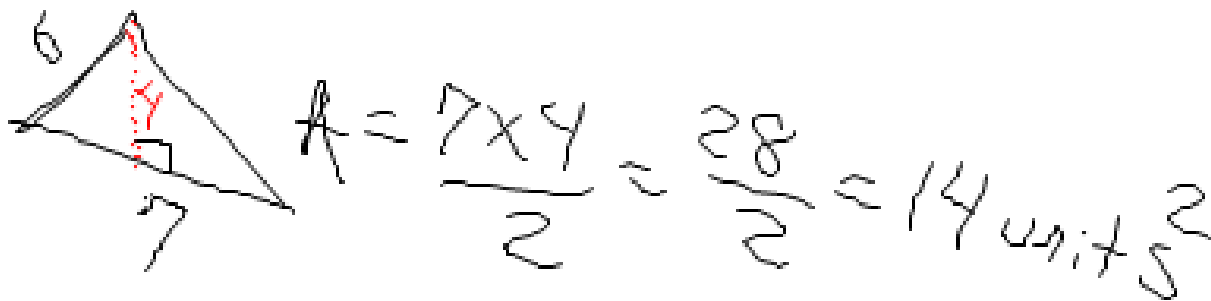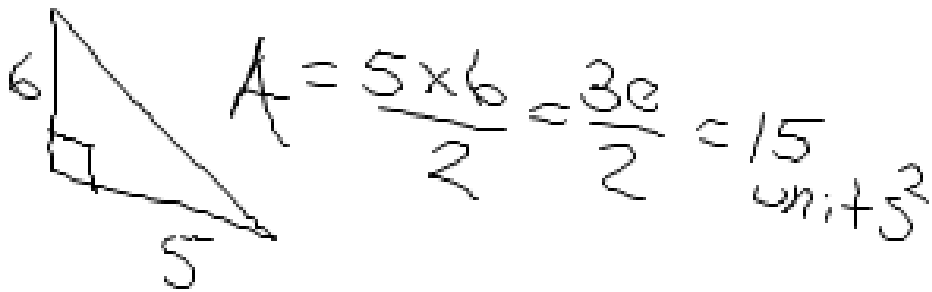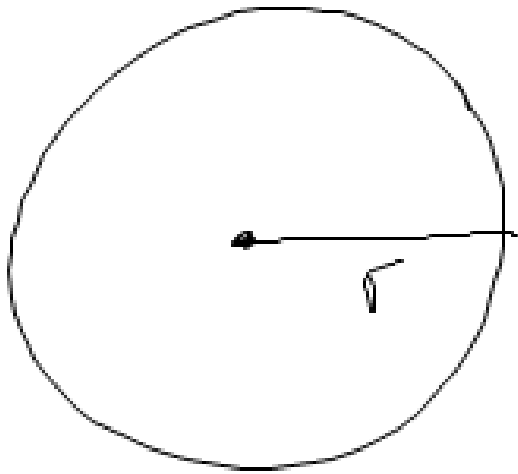
Area of a Circle: $A = \pi r^2$

Also, circumference will be important: $c = \pi d$ or $c = 2\pi r$

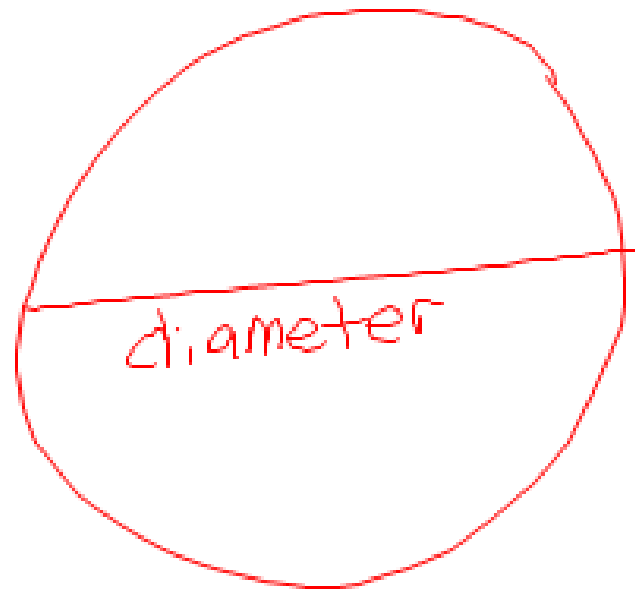height of a triangle has to be perpendicular (right angle) to the base

$$A = \frac{5 \times 6}{2} = \frac{30}{2} = 15 \text{ units}^2$$

$$A = \frac{7 \times 4}{2} = \frac{28}{2} = 14 \text{ units}^2$$

height

base

$$A = \pi r^2$$

order of operations
says BEDMAS
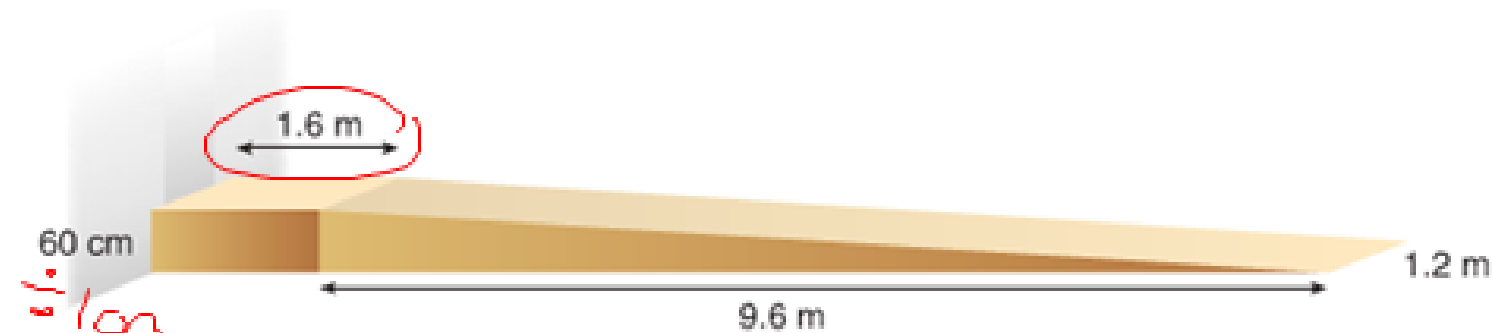so do r^2 first

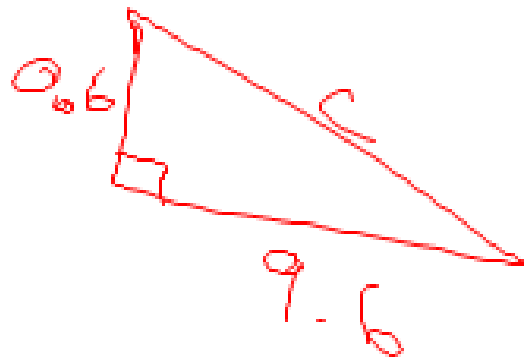※ use π on calculator
DO NOT use 3.14

diameter

$$r = \frac{d}{2}$$

$$C = 2\pi r \text{ (all multiplying)}$$

→ perimeter

To meet safety regulations, a wheelchair ramp must be followed by a landing.
This wheelchair ramp and landing lead into an office building.
Calculate the surface area of the ramp and landing.

1.6 m

60 cm

9.6 m

1.2 m

$\frac{60}{100}$

$0.6m$

0.6 c

9.6

$0.6^2 + 9.6^2 = c^2$

Solve for c