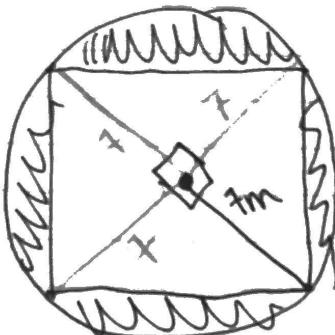


LTC7G
shaded
regions

Ex1:



Shaded region

Area of whole shape

(circle)

$$\pi \cdot 7^2$$

$$153.94$$



$$7^2 + 7^2 = x^2$$
$$\sqrt{98} = x^2$$

$$9.9$$

- area of shape inside

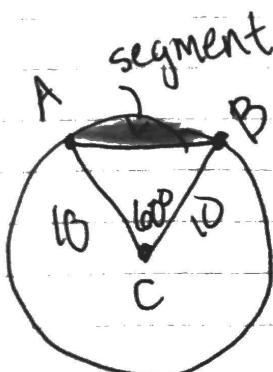
(square)

$$A = s^2$$

$$9.9^2 = 98$$

$$153.94 - 98 = 55.94 \text{ is the area of the shaded region}$$

Ex2:



Find the area of the Segment (shaded)

Area of sector

$$\frac{60}{360} \cdot 10^2 \cdot \pi$$

$$S2.36$$

Area of Triangle

$$\frac{1}{2} \cdot a \cdot b \cdot \sin C$$

$$- \frac{1}{2} \cdot 10 \cdot 10 \cdot \sin 60^\circ$$
$$= 43.3$$
$$= 9.06 \text{ units}^2$$