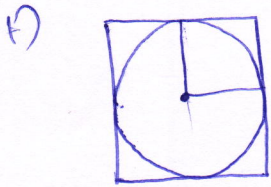


10<sup>th</sup>  
PT-6m  
Section: A



If, the side of a square  $\Rightarrow 2a$   
then  $a$  is the radius of circle  
 $\therefore$  Area of circle  $= \pi a^2$ .

2)

$$\sqrt{(p-0)^2 + (4-1)^2} = 5$$
$$p^2 + 9 = 25$$
$$p^2 = 16$$
$$p = \pm 4$$

Section: B

3)

Area of <sup>minor</sup> sector  $= \frac{\pi r^2 \theta}{360}$

$$= \frac{22}{7} \times \frac{6^2 \times 40}{360}$$
$$= \frac{88}{7} \text{ m}^2$$

→ Area of circle  $= \frac{22}{7} \times 6 \times 6$

$$= \frac{792}{7} \text{ m}^2$$

→ Area of major sector  $= \frac{792}{7} - \frac{88}{7}$

$$= \frac{704}{7}$$
$$= 100 \frac{4}{7} \text{ m}^2$$