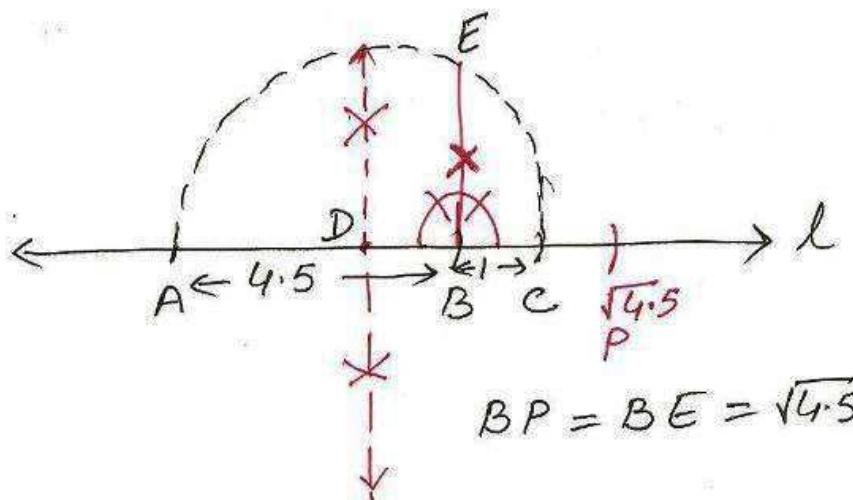


6(i) $\sqrt{4.5}$



$$BP = BE = \sqrt{4.5}$$

Similarly 6(ii), (iii), (iv)

$$\begin{aligned} 7(i) \quad & 0.2 \\ &= \frac{2}{10} \\ &= \frac{1}{5} \end{aligned}$$

$$(ii) \text{ let } x = 0.888\ldots \dots \text{ (i)}$$

$$\begin{aligned} \text{Mul. both sides by 10} \\ 10x = 8.888\ldots \dots \text{ (ii)} \end{aligned}$$

$$\begin{aligned} (ii) - (i) \\ 10x - x = 8.888\ldots - 0.888\ldots \end{aligned}$$

$$\Rightarrow 9x = 8$$

$$\Rightarrow x = \frac{8}{9}$$

$$\begin{aligned} (iii) \quad & \text{let } x = 5.\bar{2} \dots \text{ (i)} \\ \text{Mul. both sides by 10} \\ 10x = 52.\bar{2} \dots \text{ (ii)} \end{aligned}$$

$$\begin{aligned} (ii) - (i) \\ 10x - x = 52.\bar{2} - 5.\bar{2} \\ \Rightarrow 9x = 47 \\ \Rightarrow x = \frac{47}{9} \end{aligned}$$

$$\begin{aligned} 7(iv) \quad & \text{let } x = 0.\overline{001} \dots \text{ (i)} \\ \text{Mul. both sides by 1000} \\ 1000x = 1.\overline{001} \dots \text{ (ii)} \end{aligned}$$

$$\begin{aligned} (ii) - (i) \\ 1000x - x = 1.\overline{001} - 0.\overline{001} \\ 999x = 1 \\ \Rightarrow x = \frac{1}{999} \end{aligned}$$

$$7(v) \text{ let } x = 0.2555\ldots$$

$$\Rightarrow x = 0.\overline{25}$$

$$\text{Mul. both sides by 10}$$

$$10x = 2.\overline{5} \dots \text{ (i)}$$

$$\text{Mul. both sides by 10}$$

$$100x = 25.\overline{5} \dots \text{ (ii)}$$

$$(ii) - (i)$$

$$100x - 10x = 25.\overline{5} - 2.\overline{5}$$

$$\Rightarrow 90x = 23$$

$$\Rightarrow x = \frac{23}{90}$$