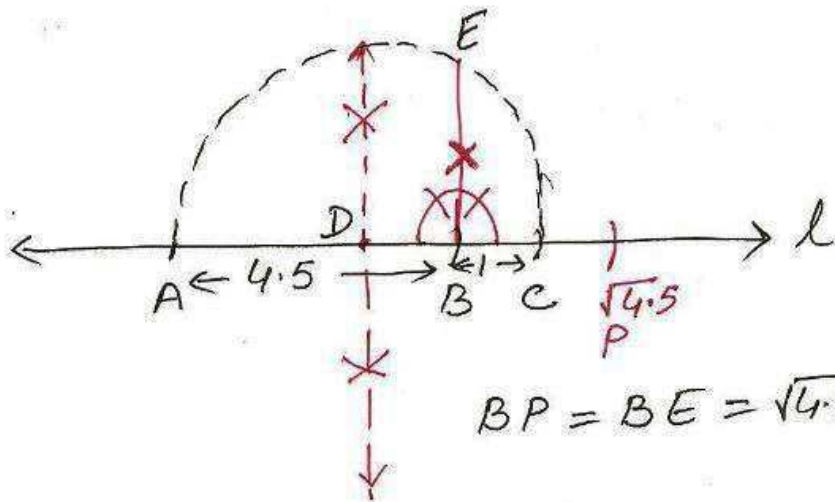


6(i) $\sqrt{4.5}$



$BP = BE = \sqrt{4.5}$

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

7(i) 0.2
 $= \frac{2}{10}$
 $= \frac{1}{5}$

(ii) let $x = 0.888\dots$ (i)

Mul. both sides by 10
 $10x = 8.888\dots$ (ii)

(ii) - (i)
 $10x - x = 8.888\dots - 0.888\dots$

$\Rightarrow 9x = 8$

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

(iii) let $x = 5.\bar{2}$ (i)

Mul. both sides by 10
 $10x = 52.\bar{2}$ (ii)

(ii) - (i)
 $10x - x = 52.\bar{2} - 5.\bar{2}$

$\Rightarrow 9x = 47$

$\Rightarrow x = \frac{47}{9}$

7(iv) let $x = 0.\overline{001}$ (i)

Mul. both sides by 1000

$1000x = 1.\overline{001}$ (ii)

(ii) - (i)

$1000x - x = 1.\overline{001} - 0.\overline{001}$

$999x = 1$

$\Rightarrow x = \frac{1}{999}$

7(v) let $x = 0.2555\dots$

$\Rightarrow x = 0.2\bar{5}$

Mul. both sides by 10

$10x = 2.\bar{5}$ (i)

Mul. both sides by 10

$100x = 25.\bar{5}$ (ii)

(ii) - (i)

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

$\Rightarrow 90x = 23$

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