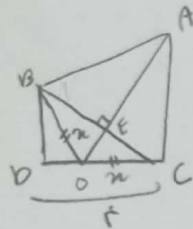


$$AB^2 = BD^2 + AD^2 \Rightarrow x^2 = 1^2 + 2^2 \Rightarrow x = \sqrt{5}$$

$$HD^2 = x^2 + 2^2 \Rightarrow 1^2 = x^2 \Rightarrow HD = \sqrt{5}$$

✓

1

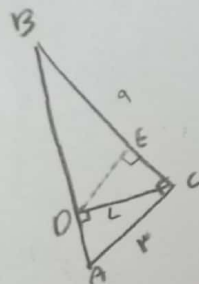


$$BO^2 = OD^2 + DB^2 \Rightarrow x^2 = 1^2 + 2^2 \Rightarrow x = \sqrt{5}$$

$$BC^2 = DC^2 + DB^2 \Rightarrow BC = \sqrt{1^2 + 2^2} = \sqrt{5}$$

1

10



$$AB^2 = BC^2 + AC^2 \Rightarrow AB = \sqrt{5}$$

$$DC = \frac{BC \times AC}{AB} \Rightarrow DC = h_1 = \frac{1 \times 2}{\sqrt{5}} = \frac{2}{\sqrt{5}} = L$$

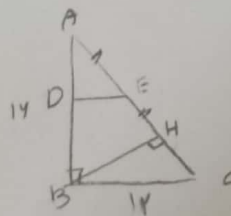
$$L^2 = EC \times BC \Rightarrow \frac{4}{5} \times 1 = EC \times 2 \Rightarrow EC = \frac{2}{5}$$

$$BC = BE + EC$$

$$1 = BE + \frac{2}{5}$$

$$BE = \frac{3}{5}$$

5



$$AC = \sqrt{AD^2 + DC^2} \Rightarrow AC = \sqrt{14^2 + 1^2} = \sqrt{197}$$

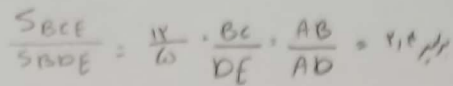
$$BC^2 = HC \times AC \Rightarrow 1^2 = HC \times \sqrt{197} \Rightarrow HC = \frac{1}{\sqrt{197}}$$

$$BH = \frac{AB \times BC}{AC} \Rightarrow BH = \frac{14 \times 1}{\sqrt{197}} = \frac{14}{\sqrt{197}}$$

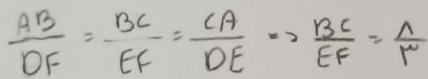
$$\frac{DE}{BC} = \frac{AE}{AC} \Rightarrow \frac{DE}{1} = \frac{AE}{\sqrt{197}} \Rightarrow AE = DE \times \sqrt{197}$$

10

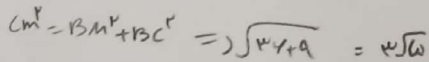
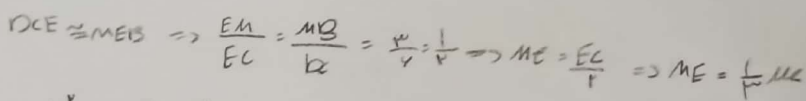
9



$$\left. \begin{array}{l} DM \parallel BA \\ A = 90^\circ \\ BA = AD \end{array} \right\} \Rightarrow ABMD \text{ is a square} \Rightarrow D = D = 90^\circ \Rightarrow DM \perp ME$$

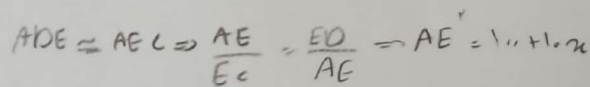


$$AB = \frac{\Delta}{w} \times RF \Rightarrow \frac{\Delta}{2} \times 1,0 = \frac{r_2}{4} = 4,4V \Rightarrow AB = 4,4V$$



$$FAM \approx CMB \Rightarrow \frac{AM}{R_2} = \frac{MF}{m_C} \Rightarrow \frac{r}{y} \approx \frac{1}{r} = \frac{MF}{\sqrt{50}} \Rightarrow MF = \frac{\sqrt{50}}{r}$$

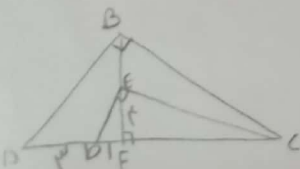
9



$$A\mathbf{e}^T = B\mathbf{e}^T + B\mathbf{A}^T \rightarrow 1 + 1 \cdot x = x^T + 1 \cdot 1 \Rightarrow x^T + 1 \cdot x + 1 = 0 \rightarrow x = 1,5 \vee -0,5$$

$$FE \vdash FD \times FC \Rightarrow 14 = 1 \times FC \Rightarrow FC = 14$$

$$BC^2 = FC \times AC \Rightarrow BC = \sqrt{14 \times 16} = 4\sqrt{10}$$



$$BD' + DC' = BC' \rightarrow BC = r\sqrt{2} = rBE = rEC$$

$$\rightarrow BE = EC = \sqrt{a}$$

$$S_{ABE} = \frac{1}{r} AE \times BE = \omega$$