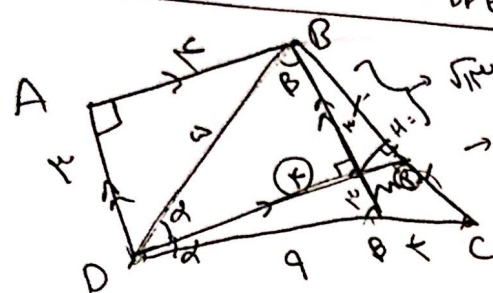


$$\frac{S_{BDE}}{S_{ADE}} = \frac{1}{1} = \frac{1}{1}$$

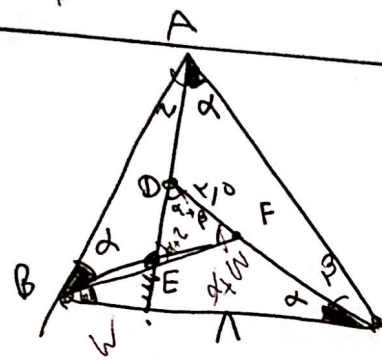
$$\frac{S_{BEC}}{S_{BDE}} = \frac{1}{1} = \frac{1}{1}$$

$$S_{BDE} + S_{BEC} = \frac{1}{4} S_{ABC} + \frac{1}{4} S_{ABC} = \frac{1}{2} S_{ABC}$$



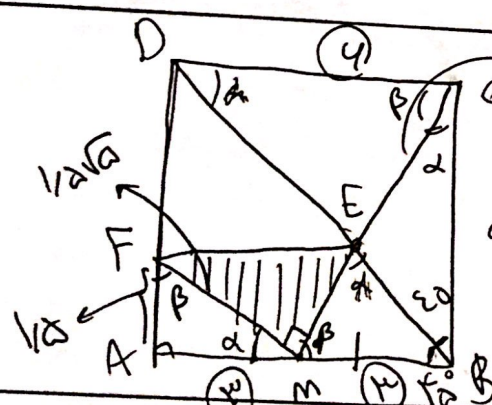
$$r = \sqrt{13} \times MH$$

$$\frac{9 \times \sqrt{13}}{13} = MH$$



$$AB = ?$$

$$\frac{DF}{BC} = \frac{EF}{AB} \Rightarrow \frac{1}{1} = \frac{1}{1}$$

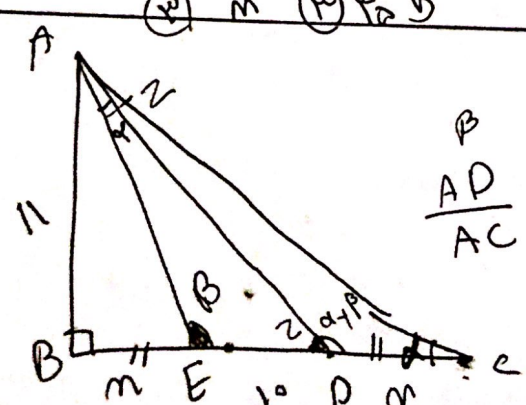


$$14 + 9 = 23$$

$$\frac{EM}{EC} = \frac{1}{1} \Rightarrow EM = EC$$

$$EC = m + n = \sqrt{13}$$

$$\frac{1}{2} \sqrt{13} \times \sqrt{13} = 2 \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{2}$$



$$\frac{AD}{AC} = \frac{1}{1} = \frac{AE}{10+n}$$

$$(AE)^2 = 1 \cdot (1+n)$$

$$AE = \sqrt{1+n}$$

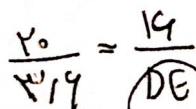
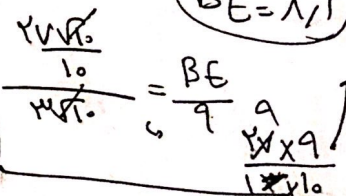
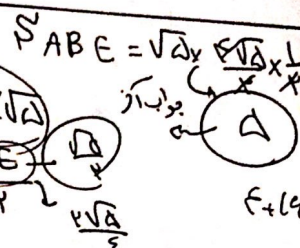
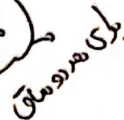
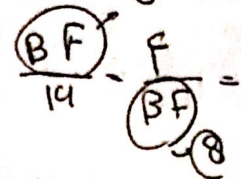
$$10 + 1 \cdot n = 11 + n$$

$$n = 7$$

$$n = 3$$

$$n^2 - 10n + 11$$

$$(n-3)(n-7) = 0$$



$$\frac{14 \times 14}{1 \times 10} = 14 \rightarrow 14$$

1110
10 1/4
3