

1.113
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$$\frac{EC}{MA} = \frac{CD}{MD} \quad \Leftarrow \text{(S.S.) } \triangle MADM \text{ und } \triangle ECD \quad \checkmark$$

$$\angle AEC = 60^\circ = \angle ABC \quad \checkmark$$

$$\text{(NDV)} \quad \angle MBA = \angle BAE \Rightarrow MA = BE$$

$$\alpha = \angle ACM = \angle MBA = \angle BCE = \angle BAE$$
$$\angle ACB = \angle ACM + \angle MCB = \angle BCE + \angle MCB = 60^\circ$$

$$\triangle BCE: \quad \angle CBE = 180 - \angle BEA - \angle BCE - \angle AEC =$$
$$= 180 - \angle BCA - \alpha = 180 - 60 - \alpha = 60 - \alpha$$

$$\angle MCB = \angle MCE - \angle BCE = 60 - \alpha$$

$$\rightarrow \angle MCB = \angle CBE \Rightarrow MB = CE = DC$$

$$MC = MD + DE = AB + MA$$