



$$\rightarrow \frac{a}{7} = \frac{a+5}{8} \quad (\triangle ABC' \text{ de di}^2 \text{ aqiorby teo}).$$

$$8a = 7a + 35 \quad a = 35$$

$$\rightarrow \frac{|CE|}{|ED|} = \frac{8}{40} = \frac{1}{5} \quad (\triangle CAD' \text{ da } i^2 \text{ aqiorby teoremi}) \\ \text{veya } \triangle CBD' \text{ de } i^2 \text{ aqiorby teoremi})$$

$$\rightarrow |CD|^2 = |CH|^2 + |HD|^2 = (4\sqrt{3})^2 + 3^2 \Rightarrow |CD| = 8\sqrt{2}$$

$$\rightarrow |CE| = \frac{4\sqrt{2}}{3} \quad |ED| = \frac{20\sqrt{2}}{3}$$

$\rightarrow \triangle CBE$  de  $i^2$  aqiorby vlonluşu

$$|BE|^2 = 7 \cdot 35 - \frac{4\sqrt{2}}{3} \cdot \frac{20\sqrt{2}}{3}$$

$$|BE|^2 = \frac{5^2 \cdot 7}{3} \Rightarrow |BE| = \frac{5\sqrt{21}}{3}$$

$$\frac{|BE|}{|EA|} = \frac{\frac{5\sqrt{21}}{3}}{\frac{20\sqrt{21}}{3}} = \frac{1}{4}$$