

Beatriz Gonçalves Eleutério

• Teorema de Tales / Bissetriz

① $\triangle CBD$

isóceles



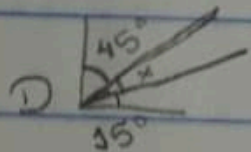
$$B = 90 + 60 \rightarrow B = 150^\circ$$

$$180 - 150 = 30$$

$$30/2 = 15^\circ$$

$$C = 15^\circ$$

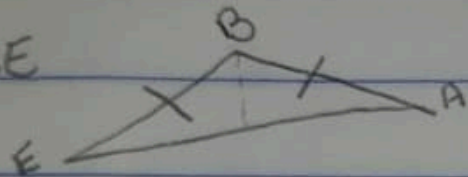
$$D = 15^\circ$$



$$15^\circ + 15 + x = 90^\circ$$

$$x = 90 - 60 \rightarrow x = 30^\circ$$

② $\triangle ABE$



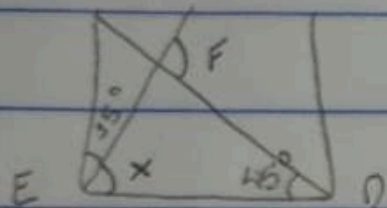
$$B = 90 + 60 \rightarrow B = 150^\circ$$

$$180 - 150 = 30^\circ$$

$$30/2 = 15^\circ$$

$$E = 15^\circ$$

$$A = 15^\circ$$

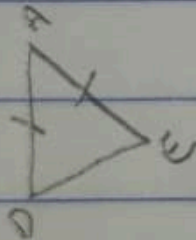


$$x = 90 - 45 \rightarrow x = 45^\circ$$

$$F = 45 + 45 \rightarrow F = 120^\circ$$

③ $\triangle AED$

isosceles



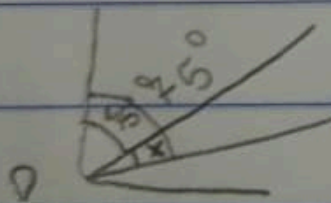
$$A = 90 - 60 \rightarrow A = 30^\circ$$

$$180 - 30 = 150$$

$$150/2 = 75^\circ$$

$$D = 75^\circ$$

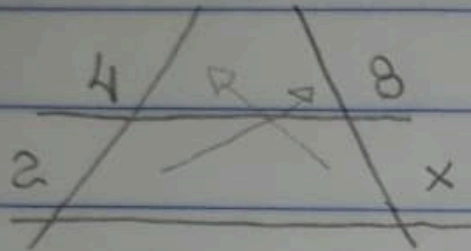
$$E = 75^\circ$$



$$x = 45 - 45$$

$$x = 30^\circ$$

④



$$4x = 8 \cdot 2$$

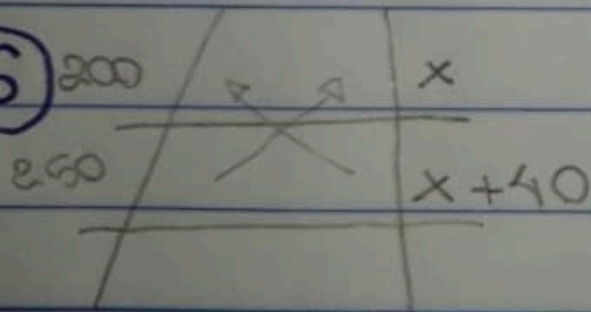
$$4x = 16$$

$$x = \frac{16}{4}$$

$$x = 4 \text{ cm}$$

⑤ E - um losango é um paralelogramo, pois um losango possui lados opostos paralelos.

⑥



$$250x = 200x + 8000$$

$$250x - 200x = 8000$$

$$50x = 8000$$

$$x = \frac{8000}{50}$$

$$x = 160 \text{ m}$$

tilibra