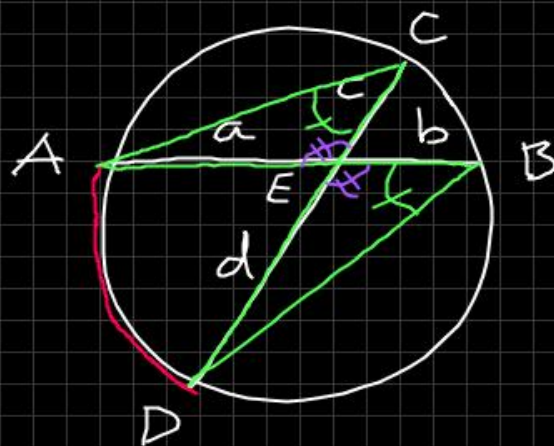


1/6
Repetition Kap 3. Geometri (s. 241-...)

3230

FS:

$$ab = cd$$



för erhåll! (randvinkel) $\sphericalangle ACD = \sphericalangle ABD$

(vertikalvinkel) $\sphericalangle DEB = \sphericalangle AEC$

(2 vinklar identifierade, likformighet) $\triangle DBE \sim \triangle ACE$

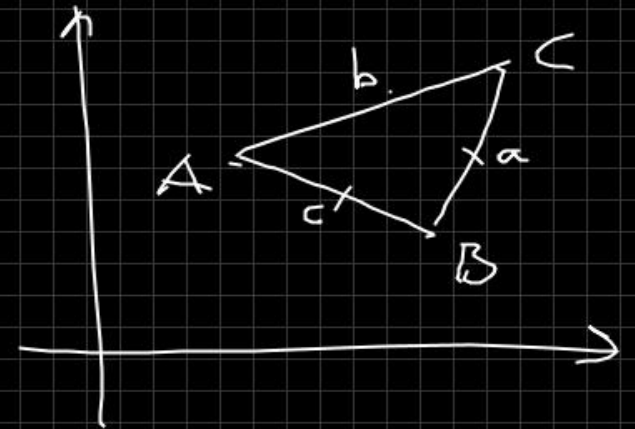
$$\Rightarrow \frac{a}{d} = \frac{c}{b} \Leftrightarrow \boxed{ab = cd} \quad \underline{\underline{S.S.U.}}$$

3301

Strategi:

1)  \Leftrightarrow Pythagoras sats gäller sant.

2)  två lika långa sidor.



$$A (3, 4) \quad BC = |a| = \sqrt{(11-9)^2 + (8-2)^2} = \sqrt{4+36} = \sqrt{40}$$

$$B (9, 2) \quad AB = |c| = \sqrt{(9-3)^2 + (2-4)^2} = \sqrt{36+4} = \sqrt{40}$$

$$C (11, 8) \quad AC = |b| = \sqrt{(11-3)^2 + (8-4)^2} = \sqrt{64+16} = \sqrt{80}$$

Pyth. s. t. s.:

$$a^2 + c^2 = b^2$$

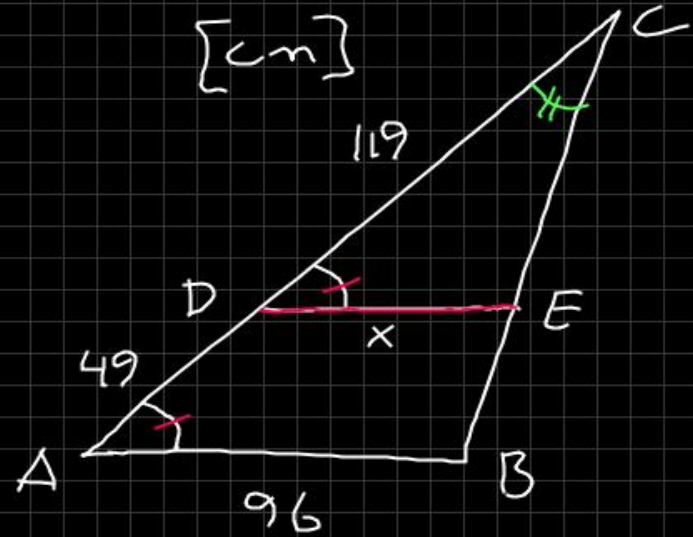
$$\text{Vh: } a^2 + c^2 = \sqrt{40}^2 + \sqrt{40}^2 = 40 + 40 = 80$$

$$\text{Hh: } b^2 = \sqrt{80}^2 = 80$$

Svar
Ja

3201

$$\triangle ABC \sim \triangle DEC$$



$$\frac{x}{96} = \frac{119}{49+119}$$

$$\frac{x}{96} = \frac{119}{168}$$

$$x = \frac{96 \cdot 119}{168} = \frac{\cancel{2} \cdot 48 \cdot 119}{\cancel{2} \cdot 84} = \frac{\cancel{2} \cdot 24 \cdot 119}{\cancel{2} \cdot 42} = \frac{\cancel{2} \cdot 12 \cdot 119}{\cancel{2} \cdot 21}$$

$$= \frac{\cancel{3} \cdot 4 \cdot 119}{\cancel{3} \cdot 7} = \frac{4 \cdot \cancel{7} \cdot 17}{\cancel{7}} = \underline{\underline{68 \text{ cm}}}$$

Information:

Ti 26 maj

Osas upptagen med fysikprov

⇒ Ma2c-lektion utgår.

vi bör matten på fysikpasset

Start kl. 13⁴⁰

3121 Bestäm vinklarna

$$\sphericalangle ACB \stackrel{!}{=} \sphericalangle ADB$$



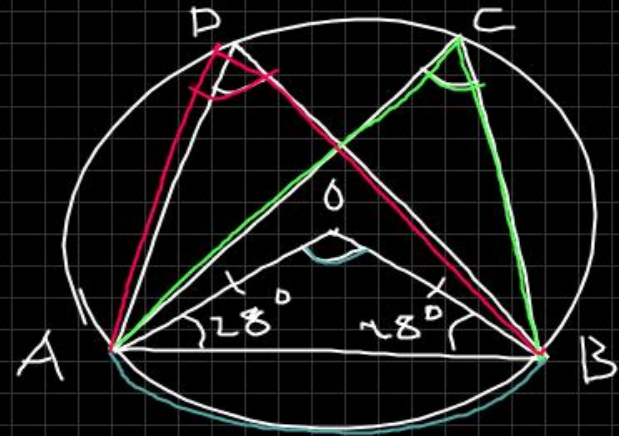
$$\sphericalangle ACB$$

$$\sphericalangle ADB$$

Svar:

$$\sphericalangle ACB = 72^\circ$$

$$\sphericalangle ADB = 72^\circ$$



$$\sphericalangle ABO = 28^\circ \text{ (likbent)}$$

$$\sphericalangle AOB + 28^\circ + 28^\circ = 180^\circ \text{ (vinkelsumma)}$$

$$\sphericalangle AOB = 180^\circ - 56^\circ = 124^\circ$$

$$\text{(Randvinkel)} \sphericalangle ACB = \frac{124^\circ}{2} = 72^\circ$$

$$\sphericalangle ADB = \sphericalangle ACB = 72^\circ$$

