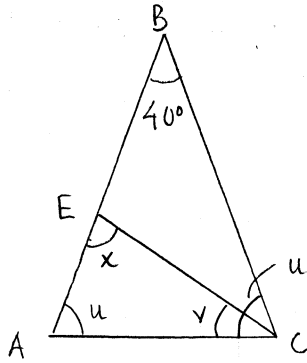


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Visa att $x = 75^\circ$

Bewis:

$$\angle BAC = \angle ACB = u \quad (\text{basvinklar i likbent triangel})$$

$$40^\circ + 2u = 180^\circ \quad (\text{vinkelsumman i } \triangle ABC \text{ är } 180^\circ)$$

$$u = 70^\circ$$

$$v = \frac{u}{2} = \frac{70^\circ}{2} = 35^\circ \quad (\text{CE bisektör})$$

$$x + u + v = 180^\circ \quad (\text{vinkelsumman i } \triangle ACE \text{ är } 180^\circ)$$

$$x = 180^\circ - u - v =$$

$$= 180^\circ - 70^\circ - 35^\circ = 75^\circ \quad \square$$