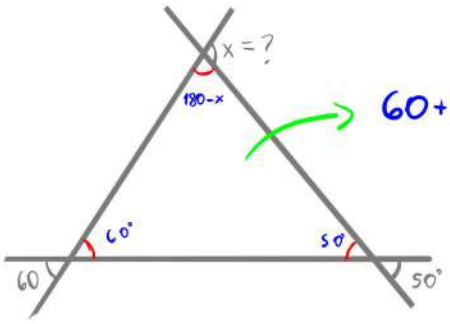
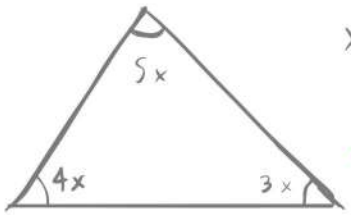
①



$60 + 50 + 180 - x = 180 \Leftrightarrow 110 + x = 0 \Leftrightarrow x = 110$

A. 100°
B. 105°
C. 110°
D. 115°
E. 120°

②



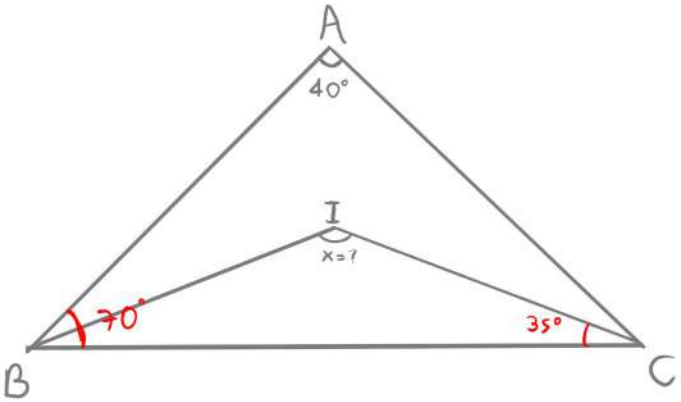
$X = ?$

$4x + 5x + 3x = 180 \Leftrightarrow 12x = 180 \Leftrightarrow x = \frac{180}{12} \Leftrightarrow x = \frac{30}{2}$

$x = 15°$

A. 125°
B. 55°
C. 35°
D. 65°
E. 15°

③



Supondo que IBC = ICB e ABC = ACB, ABC só poderá valer 70°
e ICB só poderá valer 35°.
Com isso em mente, podemos calcular BIC.

$35 + 35 + x = 180 \Leftrightarrow 70 + x = 180 \Leftrightarrow x = 180 - 70$

$x = 110°$ Contanto que as proporções sejam mantidas, $x = 110$: $30 + 40 + x = 180 \Leftrightarrow x = 110$

A. 80°
B. 90°
C. 100°
D. 110°
E. 120°