Find the measure of $\angle x$ and $\angle y$.[1]

25°

x

y
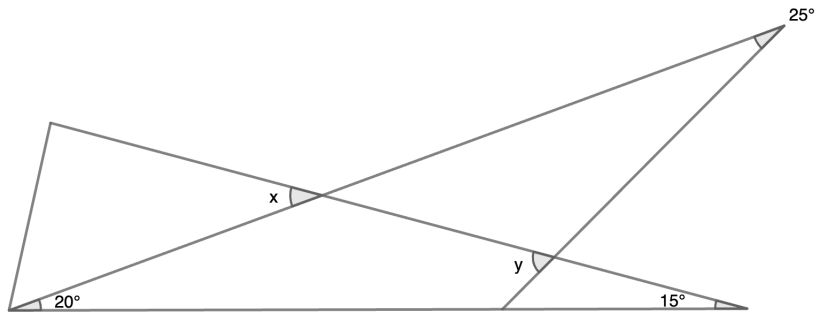
20°   15°

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[1]Hosei University Girl's High School, Kanagawa

Solution

Answer : $\angle x = 35°, \angle y = 60°$

Proof ($\angle x$): $\angle\mathbf{x} = \mathbf{20°} + \mathbf{15°} = \mathbf{35°}$.
Proof ($\angle y$): $\angle\mathbf{y} = \mathbf{20°} + \mathbf{25°} + \mathbf{15°} = \mathbf{60°}$.