

Name: _____

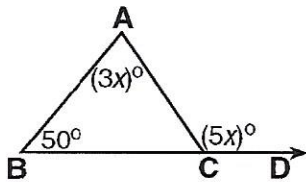
Date: _____

Mrs. Roubos

8R Period _____

Exterior Angle Homework

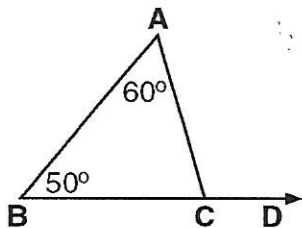
- 1) In the accompanying diagram, $\angle ACD$ is an exterior angle of $\triangle ABC$, $m\angle A = 3x^\circ$, $m\angle ACD = 5x^\circ$, and $m\angle B = 50^\circ$.



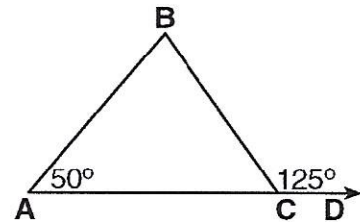
What is the value of x ?

- A) 30 C) 100
 B) 60 D) 25

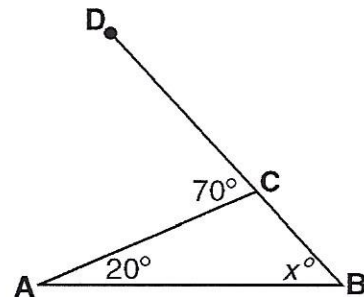
- 2) In the accompanying diagram, $\angle ACD$ is an exterior angle of $\triangle ABC$. If $m\angle A = 60^\circ$ and $m\angle B = 50^\circ$, find $m\angle ACD$.



- 3) In the accompanying diagram of $\triangle ABC$, the measure of exterior angle BCD is 125° and $m\angle BAC = 50^\circ$. Find $m\angle ABC$.



- 4) In the accompanying diagram of $\triangle ABC$, \overline{BC} is extended to D , $m\angle A = 20^\circ$, $m\angle ACD = 70^\circ$, and $m\angle B = x^\circ$.



What is the value of x ?

- A) 110 C) 70
 B) 90 D) 50