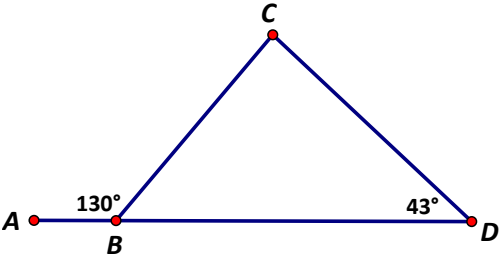
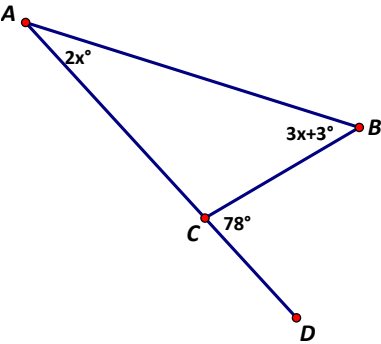


TARGET 3C: UNDERSTANDING ANGLES AND SEGMENTS IN A TRIANGLE

Name:

Period:

| I can ... | Sample Question | Sample Solution | What level is your understanding? 4=complete, 3=substantial 2=developing, 1=minimal |
|---|---|-----------------|---|
| <p>1. I can use the exterior angle theorem to solve problems.</p> | <p>Find $m\angle BCD$.</p>  <p>Find x and $m\angle ABC$.</p>  | | |
| <p>2. I can find the sums of the interior angles and exterior angles of a convex polygon.</p> | <p>a. Find the sum of the interior angles of a heptagon. b. Find the sum of the exterior angles of a heptagon. c. The sum of the interior angles of a figure is 1800. What type of polygon is this figure? d. Find the sum of the exterior angles of a kite.</p> | | |

3. I can find the measure of interior and exterior angles of a convex polygon.

Find the value of n .

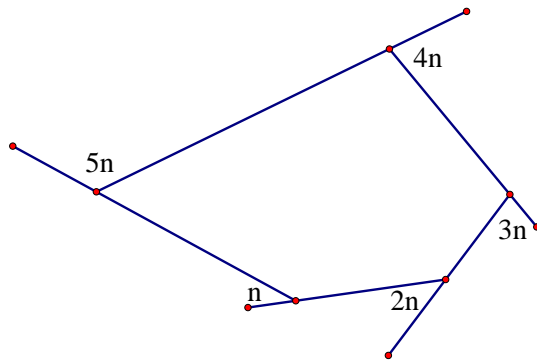
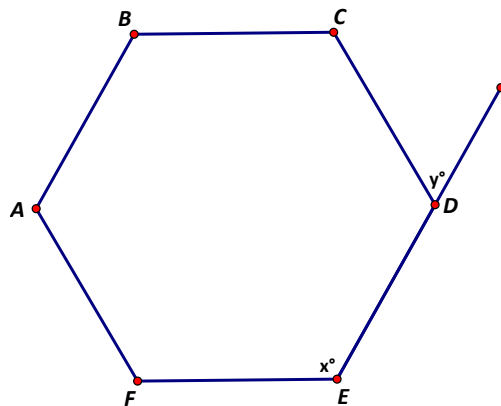
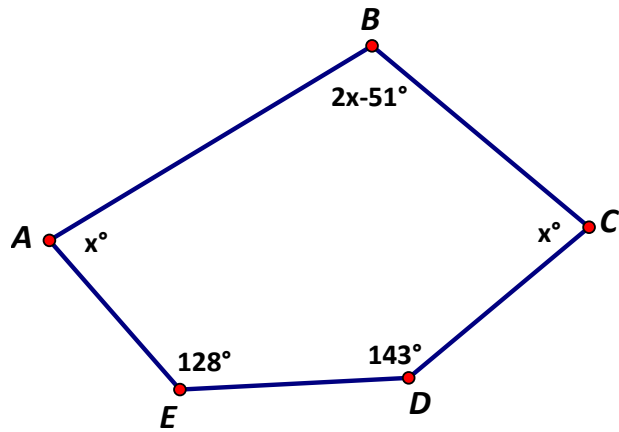


Figure ABCDEF is a regular hexagon. Find x and y .



Solve for x and the measure of all the unknown interior angles in the pentagon below.



4. I can explain the characteristics of the midsegments, medians, and altitudes of a triangle.

- Explain what you know about the midsegments of a triangle.
- Explain what you know about the medians of a triangle.
- Explain what you know about the altitudes of a triangle.
- Find the angles x , y , and z in the figure. Find the length of AD , AC , and BE , FD .

