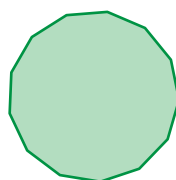**Find the sum of the interior angle measures of the polygon.**   *(Section 3.3)*

1.

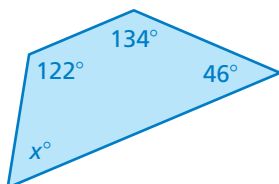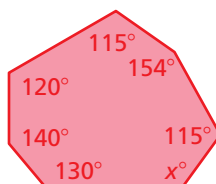**2.**

Find the measures of the interior angles of the polygon.   *(Section 3.3)*
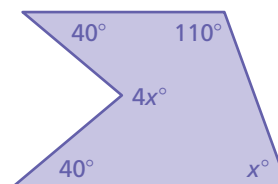
3.

134°
122°   46°
$x°$

4.

115°
154°
120°
140°   115°
130° $x°$

5.

40°   110°
$4x°$
40° $x°$

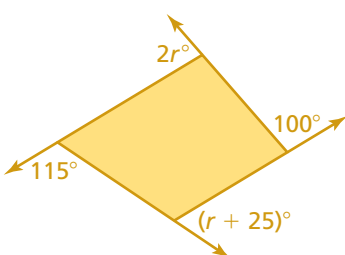**Find the measures of the exterior angles of the polygon.**   *(Section 3.3)*

6.

$2r°$
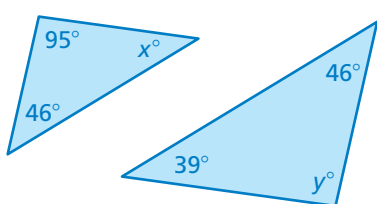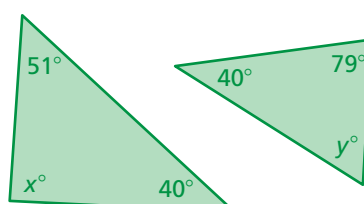100°
115°
$(r + 25)°$

7.

$x°$
$2x°$
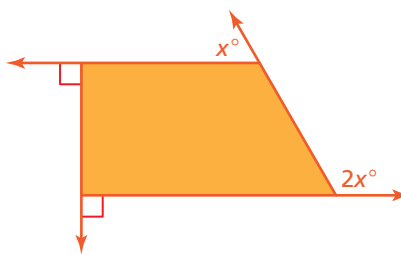
Tell whether the triangles are similar. Explain.   *(Section 3.4)*

8.

95° $x°$
46°
46°
39° $y°$

9.

51°
40°   79°
$y°$
$x°$ 40°

10. REASONING The sum of the interior angle measures of a polygon is 4140°. How many sides does the polygon have?   *(Section 3.3)*

11. SWAMP You are trying to find the distance ℓ across a patch of swamp water.   *(Section 3.4)*

   a. Explain why △VWX and △YZX are similar.

   b. What is the distance across the patch of swamp water?

V
100 ft
30 ft Z
W 60 ft X
ℓ
Y