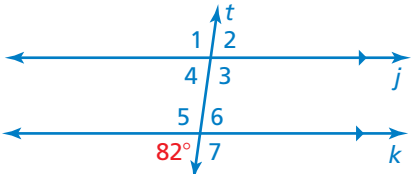
3.1–3.2 Quiz

Check It Out
Progress Check
BigIdeasMath.com

Use the figure to find the measure of the angle. Explain your reasoning. *(Section 3.1)*



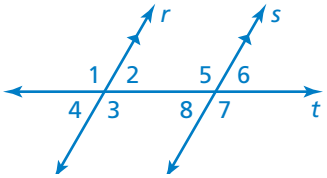
1. $\angle 2$

2. $\angle 6$

3. $\angle 4$

4. $\angle 1$

Complete the statement. Explain your reasoning. *(Section 3.1)*



5. If the measure of $\angle 1 = 123°$, then the measure of $\angle 7 =$ ____.

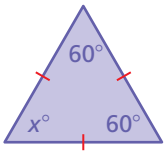
6. If the measure of $\angle 2 = 58°$, then the measure of $\angle 5 =$ ____.

7. If the measure of $\angle 5 = 119°$, then the measure of $\angle 3 =$ ____.

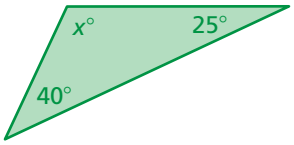
8. If the measure of $\angle 4 = 60°$, then the measure of $\angle 6 =$ ____.

Find the measures of the interior angles. *(Section 3.2)*

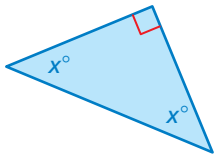
9.



10.

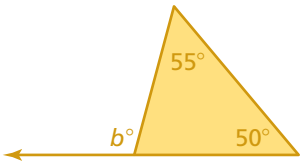


11.

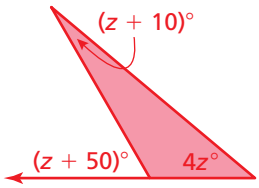


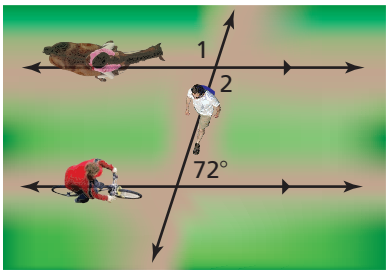
Find the measure of the exterior angle. *(Section 3.2)*

12.



13.





14. PARK In a park, a bike path and a horse riding path are parallel. In one part of the park, a hiking trail intersects the two paths. Find the measures of $\angle 1$ and $\angle 2$. Explain your reasoning. *(Section 3.1)*

15. LADDER A ladder leaning against a wall forms a triangle and exterior angles with the wall and the ground. What are the measures of the exterior angles? Justify your answer. *(Section 3.2)*