

Assessment: Section C Checkpoint

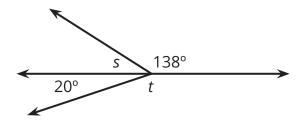
Problem 1

Goals Assessed

 Write equations to represent angle relationships and reason about and find unknown measurements.

Statement

Angle s and the angle that is 138° make a straight angle. What are the measurements of angles s and t? Explain or show your reasoning.



Solution

- Angle s is 42°. Sample reasoning: Angle s and the 138° angle make a straight angle, and 180 138 = 42.
- Angle *t* is 160° . Sample reasoning: 180 20 = 160

Problem 2

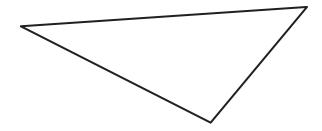
Goals Assessed

• Draw and identify acute, obtuse, right, and straight angles in two-dimensional figures.

Statement

1. Decide if each angle in the triangle is acute, right, or obtuse.



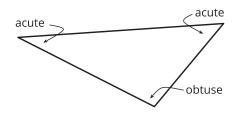


2. Draw a triangle with one right angle. Label the right angle B.

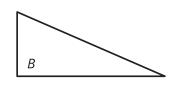
Solution

Sample responses:

a.



b.



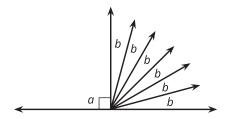
Problem 3

Goals Assessed

• Recognize that angles can be measured in degrees and can be found using addition and subtraction.

Statement

What are the measurements of angles a and b if all of the angles add up to 180 degrees? Explain or show your reasoning.





Solution

- ullet Angle a is 90° because the rays that create the angle are perpendicular.
- Angle b is 15° because six of them make a 90° angle (180 90 = 90), so each of them is $90 \div 6$ or 15 degrees.