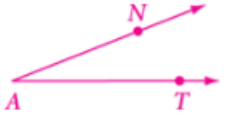
Homework Check

1. $\angle TEN$, $\angle NET$, $\angle E$;
$\angle FOU$, $\angle UOF$, $\angle 1$;
$\angle ROU$, $\angle UOR$, $\angle 2$;

2.



6. 90°

7. 120°

8. 45°

9. 135°

10. 45°

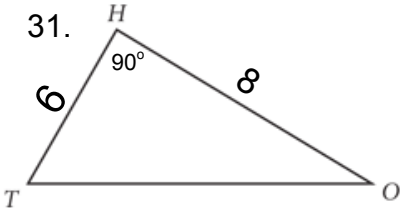
11. 135°

12. 30°

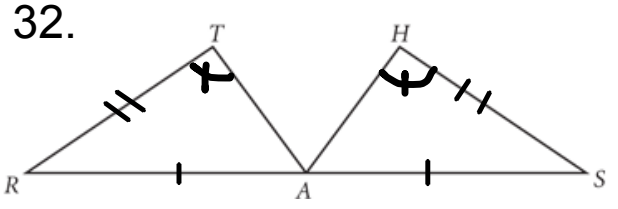
13. 90°

14. Yes;
$m\angle XQA + m\angle XQY = 45^\circ + 90^\circ = 135^\circ$,
which equals $m\angle AQY$.

31.



32.



35. MY
CK
$m\angle I$

36. $\angle SEU$
$\angle EUO$
MO

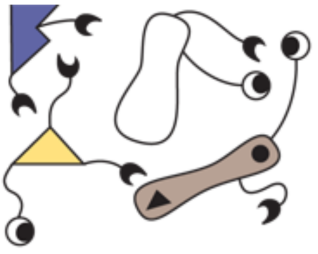
38. $y = 102^\circ$

39. $z = 32^\circ$

1.3 Creating Definitions

What's a widget?

Widgets



Not Widgets

Which are Widgets?

A protractor is a geometry tool used to measure angles

Classify it. What is it?

How does it differ from others?

A square is a _____ that _____

Test a definition with a **counterexample**

Creating a good definition:

1. **Classify** your term. What is it?

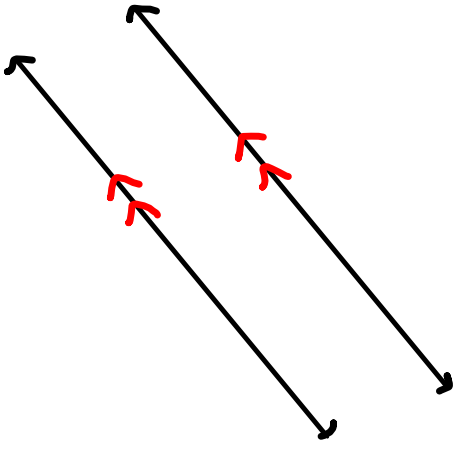
   (A square is a 4-sided figure...)

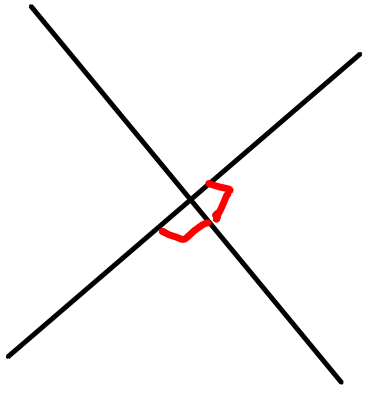
2. **Differentiate** your term. How does it differ from others in that class?

   ("...that has four congruent sides and four right angles.")

3. **Test** your definition by looking for a counterexample.

Parallel and Perpendicular Markings

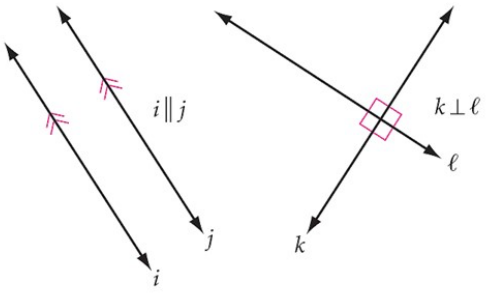




Define these terms:

a. Parallel lines

b. Perpendicular lines



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INVESTIGATION 1
SOLUTION

Right Angle
A right angle is an angle that measures 90°.

Acute Angle
An acute angel measures less than 90°.

Obtuse Angle
An obtuse angle measures more than 90° but less than 180°.

Complementary Angles
A pair of complementary angles has a sum of 90°.

Supplementary Angles
A pair of supplementary angles has a sum of 180°.

Vertical Angles
Vertical angles are angles formed by two intersecting lines; they share a common vertex but not a common side.

Linear Pair of Angles
Two angles are a linear pair if they share a vertex and a common side and their noncommon sides form a line.

August 21, 2019