

Lesson 1.2.3: Angles in a Triangle

Targets:

1. I can find the measure of unknown angles by applying the triangle rules.

Vocabulary:

Watch the video and take notes here:

1. Isosceles Triangle:

2. Angles of a Triangle:

3. Exterior Angle of a Triangle:

Triangle Rules

Watch the video and take notes here. Make sure to listen closely as these will be very important rules for this lesson. And make sure to include examples.

1. Angle Sum:

2. Exterior Angle = Opposite Interior Angles:

3. Base Angles of Isosceles Triangle:

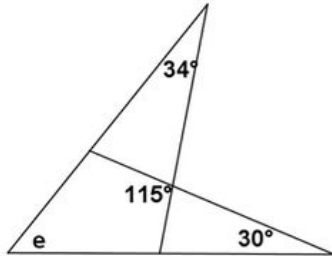
4. Equilateral Triangle Angles:

Practice Problems

Use the triangle rules we just learned to help you find the missing angles that are labeled. After you find a missing angle, write down your reasoning to justify your solution.

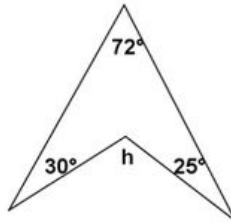
1. $m\angle e =$ _____

because:



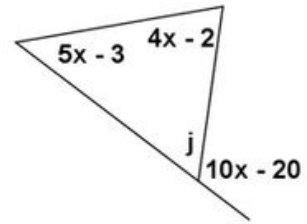
2. $m\angle h =$ _____

because:



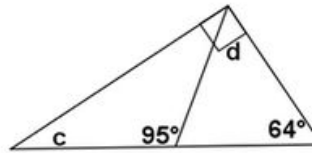
3. $m\angle j =$ _____

because:



Exit Ticket

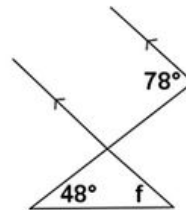
1. Explain how you got your solutions.



$m\angle c =$ _____

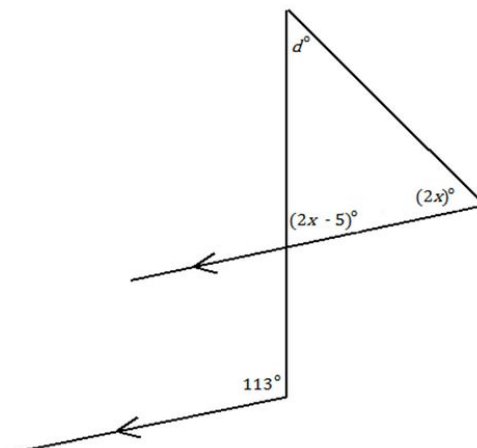
$m\angle d =$ _____

2. Explain how you got your solutions.



$m\angle f =$ _____

3. Explain how you got your solutions.



$d =$ _____

$x =$ _____