Name: $\qquad$
7R

Date: $\qquad$
Classwork 10.4

## Triangle Sum Theorem

Aim: How do we find the measure of a missing angle of a triangle?

There is a special relationship between the measures of the interior angles of a triangle.
The Triangle Sum Theorem states that the sum of the interior angles of a triangle is $\qquad$ -.

$$
A+B+C=180
$$

Example 1: Find the measure of the missing angles. Solve algebraically.
a)

b)


Try It: Find the measure of the missing angle. Solve algebraically.


Example 2: Find the value of $\boldsymbol{x}$. Solve algebraically.


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Try It: Find the value of $\boldsymbol{x}$. Solve algebraically.

(\#1-2) Find the measure of the missing angles. Solve algebraically.
1)

2)

3) Find the value of the missing angles. Solve algebraically.


