



Name: _____

Date: _____

Triangle Angles

Solve for x . Show your work.

1. A triangle has angles $2x^\circ$, $3x^\circ$, and 105° . Find x .
2. A triangle has angles $2x^\circ$, $3x^\circ$, and 100° . Find x .
3. A triangle has angles $2x^\circ$, $3x^\circ$, and -20° . Find x .
4. A triangle has angles $2x^\circ$, $3x^\circ$, and 15° . Find x .
5. A triangle has angles $2x^\circ$, $3x^\circ$, and 45° . Find x .
6. A triangle has angles $2x^\circ$, $3x^\circ$, and 35° . Find x .
7. A triangle has angles $2x^\circ$, $3x^\circ$, and 80° . Find x .
8. A triangle has angles $2x^\circ$, $3x^\circ$, and -10° . Find x .



Triangle Angles – Answer Key

1. A triangle has angles $2x^\circ$, $3x^\circ$, and 105° . Find x .

$$x = 15^\circ$$

2. A triangle has angles $2x^\circ$, $3x^\circ$, and 100° . Find x .

$$x = 16^\circ$$

3. A triangle has angles $2x^\circ$, $3x^\circ$, and -20° . Find x .

$$x = 40^\circ$$

4. A triangle has angles $2x^\circ$, $3x^\circ$, and 15° . Find x .

$$x = 33^\circ$$

5. A triangle has angles $2x^\circ$, $3x^\circ$, and 45° . Find x .

$$x = 27^\circ$$

6. A triangle has angles $2x^\circ$, $3x^\circ$, and 35° . Find x .

$$x = 29^\circ$$

7. A triangle has angles $2x^\circ$, $3x^\circ$, and 80° . Find x .

$$x = 20^\circ$$

8. A triangle has angles $2x^\circ$, $3x^\circ$, and -10° . Find x .

$$x = 38^\circ$$