

Learning Objective(s) _____:

**Main Ideas/
Questions**

Using Distance
and Slope

$$2 \rightarrow -\frac{1}{2}$$

$$-\frac{3}{4} \rightarrow \frac{4}{3}$$

Notes

Characteristics of ALL Types of Triangles:

- Scalene –
- Isosceles –
- Equilateral –

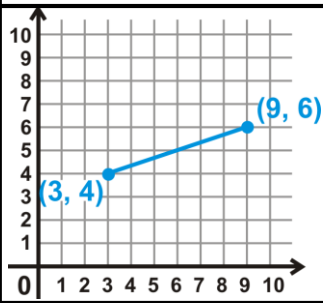
Proving Congruent Sides – Find the _____ (use *distance*)

- Right –

Proving Right Angle – Find two sides that are _____!

These slopes are _____ aka *flipped and have opposite signs*

Quick Example

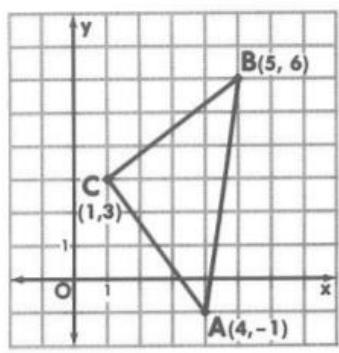


Slope

Distance

Examples

1. Prove that $\triangle ABC$ is a right triangle.



2. Triangle AFN has vertices A(-5, 6), F(-1, 6), and N(-3, 1). Prove triangle AFN is an isosceles triangle.

