Directions: Prove each shape is a right triangle by showing that the triangle has a right angle.

1) *Given:* A(1, 1), B(4, 4), & C(5, -3) *Prove* : ABC is a right triangle



2) *Given:* D(-2, 2), E(1, 4), & F(3, 1) *Prove:* DEF is a right triangle



Directions: If  $\overline{AC}$  is the hypotenuse of a right triangle, find two ordered pairs that could represent Point B in  $\triangle ABC$ .



## Directions: Prove each triangle is a right triangle by using Pythagorean Theorem.

5) A(0, 1), B(5, 2), & C(3, 4) 6) A(-2, -3), B(-1, 1), & C(3, 0)

**Directions: Complete each proof.** 

7) Prove that D(-2, -2), E(5, -1), F(1, 2) is an isosceles right triangle.



8) Prove that M(-2, 4), N(4, 4), P(-2, -4) is a scalene right triangle.

