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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: $\mathrm{D}(-2,2), \mathrm{E}(1,4), \& \mathrm{~F}(3,1)$

Prove: DEF is a right triangle


Directions: If $\overline{A C}$ is the hypotenuse of a right triangle, find two ordered pairs that could represent Point $B$ in $\triangle A B C$.
3) $A(2,3)$ and $C(-3,-2)$

4) $A(-1,-1) \& C(0,2)$


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.


