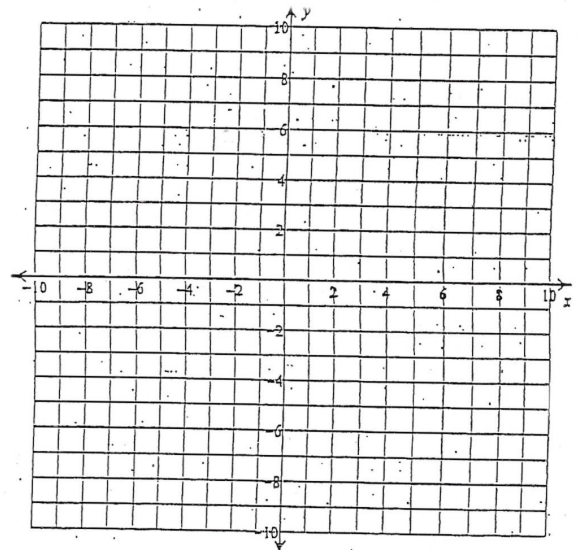
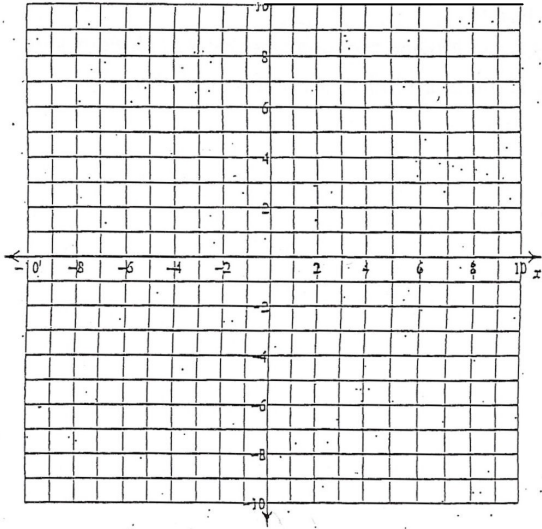


- 1) Construct an isosceles right triangle with leg lengths of 6.5 cm. Provide the measurements of all sides and angles. Using mathematics, prove the length of your hypotenuse is within 0.5 cm of what it should be.

- 2) Create the shape so that AB is a side of the figure $\triangle ABC$. If $A(-3,4)$ and $B(-5,-2)$ determine point $C(x,y)$ such that point C is located in quadrant I and completes an isosceles right triangle with the right angle located at point A.

Prove you have created an isosceles right triangle.





- 3) Using points $U(-2, 6)$, $L(3, -5)$, $C(-5, -2)$, and $K(6, 3)$.
- Plot all points
 - Name the shape created
- c) What shape is created?
- d) Prove your answer in part C above.

4) For each of the following shapes identify key characteristics

	Sides	Angles
Isosceles Triangle		
Square		
Rectangle		
Parallelogram		
Isosceles Trapezoid		
Rhombus		
Kite		