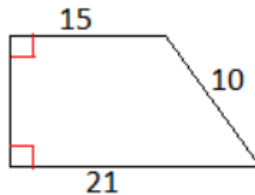


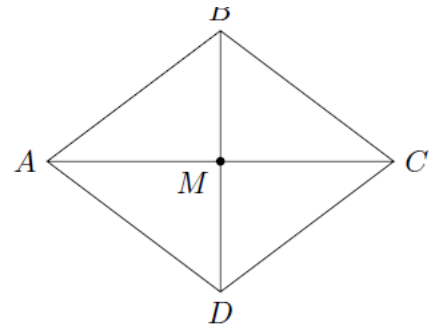
Math 6: Homework 2.8

Geometry review:

- Draw the graph of the equation $x^2 + y^2 - 4 = 0$.
 - Draw the graph of the equation $(x + 3)^2 + (y - 1)^2 - 1 = 0$.
 - Draw the graph of the equation $xy = 0$.
 - Draw the graph of the equation $x^2 + y^2 = 0$.
- Find the height and area of the figure below. Lengths of three sides are given; the two marked angles are right angles.



- Let $ABCD$ be a quadrilateral such that $AB = BC = CD = AD$ (such a quadrilateral is called rhombus). Let M be the intersection point of AC and BD .
 - Show that $\triangle ABC \cong \triangle ADC$
 - Show that $\triangle AMB \cong \triangle AMD$
 - Show that the diagonals are perpendicular and that the point M is the midpoint of each of the diagonals.



- Given three lengths a , b , c , construct a triangle with sides a , b , c .
 -
 -
 -
- Draw a circle and find its center
- We were looking at the problems from geometry quiz on this website:
<https://www.mathgametime.com/games/geometry-quiz>
You can try to get as many points as you can, and we will find the winner
(A proof is required – a photo/screenshot with your final score)