

Trig Homework 3
due Thursday, July 3rd

- 5.3 page 429 # 26, 30, 34 (do not use a calculator to draw the graph)
 - 5.4 page 441 # 10, 26, 48 (do not use a calculator to draw the graph)
 - 7.2 page 539 # 2, 4, 28, 32
1. A line that goes through the vertex A of a triangle ABC crosses the side BC at the point M . Given that $BM = BA$, $\angle BAM = 35^\circ$, and $\angle CAM = 15^\circ$, find the angles of ABC .
 2. In a right triangle ABC the lengths of the legs are 15 and 20. On the hypotenuse AB pick a point D so that $AD = 4$. Find CD .
 3. Let ABC be a right isosceles triangle with the hypotenuse AB . We draw a circle so that AC is the diameter of the circle. Let M be the point where the circle intersects AB . Find the distance from the vertex B to the center O of the circle if $BM = \sqrt{2}$.