

- A1.** Determine whether the triangle with vertices $A(1, -6)$, $B(7, -8)$, and $C(3, 0)$ is a right triangle. [Do not simply attempt to graph this and make a claim from there.]
- A2.** Determine the equation of the line which is the perpendicular bisector of the line segment with endpoints $A(-3, 7)$ and $B(5, 1)$. [Recall that the perpendicular bisector of a line segment is the line which passes through the midpoint of the line segment and is perpendicular to it.]