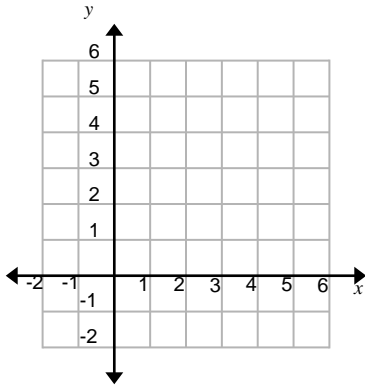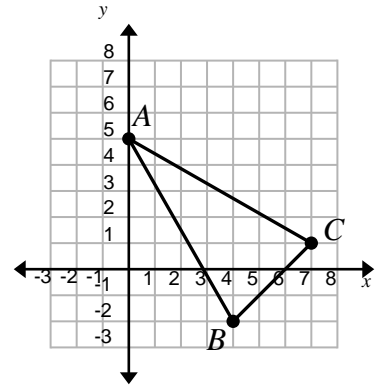Name _____ Period_____ Date_____

Using the Distance Formula: Types of Triangles

1. Points *A*, *B,* and *C* have been graphed for you.   Find the lengths of
$\overline{AB}$, $\overline{BC}$, and $\overline{AC}$. What kind of triangle is $\triangle ABC$? *Explain.*

2. Given the coordinates *D*(-1, -2), *E*(2, 4), and *F*(5, -1) graph and
connect them to form $\triangle DEF$ Find the lengths of $\overline{DE}$, $\overline{EF}$, and
$\overline{DF}$. What kind of triangle is $\triangle DEF$? *Explain.*

3. Is $\triangle GHJ$ a right triangle? Justify your answer.