

## Proof Using Analytic Geometry



Do points A, B, and $C$ form a right angle triangle? And if so, at what point is the right angle?
$\mathrm{A}=(-2,10)$
$B=(5,5)$
$C=(0,-2)$
right and le $\rightarrow$ penn
per $\rightarrow$ negative reciprocals
$A B=\frac{10-5}{-2-5}=\frac{5}{7}=\frac{5-10}{5-(-2)}$
$B C=\frac{5-(-2)}{5}=\frac{?}{5}$

## Try p.98, \#16

## Before you go...

1. Find the slope and intercepts for the pair of points
$(4,2)$ and $(2,-4)$. Find the equation in function form.
2. Rearrange the equation $y=\frac{5}{2} x-\frac{3}{2}$ into general form and symmetric form.
3. The symmetric form of an equation is:
$\frac{-4 x}{3}+\frac{2 y}{3}=1$ Find the slopes and intercepts.
