

The slope of the line containing (2,7) and (5,2) is $\frac{2-7}{5-2} = \frac{-5}{3} \neq -3$. The slope of the line containing (2,7) and (5, y) is $\frac{y-7}{5-2} = \frac{y-7}{3}$. For what y will this equal -3?