The slope of the line through the following pairs of points:
$(2,1)$ and $(4,7)$
Slope of line $m=\frac{y 1-y 2}{x 1-x 2}=\frac{1-7}{2-4}=\frac{-6}{-2}=$
Therefore the slope of the line is 3

The slope of the line through the following pairs of points:
$(3,-5)$ and $(3,1)$
Slope of line $\mathrm{m}=\frac{\mathrm{y} 1-\mathrm{y} 2}{\mathrm{x} 1-\mathrm{x} 2}=\frac{-5-1}{3-3}=\quad \frac{-6}{0}=$ undefined
When the line is vertical then the slope is undefined.
When horizontal then it is zero.
-

