Question. Find the slope of a line through the points $(-6,4)$ and (3, -4$)$.
Solution:
The equation of a straight line is usually written this way:

$$
y=k \cdot x+b
$$

Where:
k is the slope of the line.
$b$ is the $y$-intercept of the line.
$x$ is the independent variable of the function $y=f(x)$.
Points $(-6,4)$ and $(3,-4)$ must satisfy the equation of a straight line $y=k \cdot x+b$. Therefore,
$\left\{\begin{array}{l}4=-6 k+b \\ -4=3 k+b\end{array} \quad 8=-9 k=>k=-\frac{8}{9}\right.$.

