## Question \#54721, Math / Calculus

Consider the slope and point given below.
$m=1 / 3, P(-3,8)$

Find the slope-intercept form of the line with the given slope which passes through the given point. (Let $y$ be the dependent variable and let $x$ be the independent variable)

Answer.
Equation of the line through the point $\left(x_{1}, y_{1}\right): y-y_{1}=m\left(x-x_{1}\right)$
So $y-8=\frac{1}{3}(x+3) \rightarrow y=\frac{1}{3} x+9$

