

Answer on Question #79547 – Math – Calculus

Question

Write the equation of a line in point slope form that passes through $g(-2)$ and $g(3)$ when $g(x) = -x^2 + 3$

Solution

$$\begin{aligned}g(-2) &= -1, & g(3) &= -6, \\ \frac{x+2}{3+2} &= \frac{y+1}{-6+1}, \\ y+1 &= -(x+2), \\ y-(-1) &= -(x-(-2)).\end{aligned}$$

Answer: $y - (-1) = -(x - (-2))$.