

## 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:**  $y - (-1) = -(x - (-2)).$