```
7. Given the function b(x) = x^2 + 2x,
find an equation of the secant line containing (1,b(1))
and (6,b(6)). Express the equation in slope-intercept form.
w = -12 + 9 x
w = 12 - 9 x
w = -6 + 9x
W = -5 + \frac{46 \times}{}
```

## Solution

The line passing through the two points has the slope:

b(6) - b(1) $= \frac{(1(6)^2 + 2(6)) - (1(1)^2 + 2(1))}{5}$ 

w = -6 + 9 x

= 9 using one of the points, say (1,3) and the slope to get the equation of the secant line:

w-3 = 9(x-1)The equation in slope-intercep form: