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9. Given the function h(u) = 2u^2 + 3u,
find an equation of the secant line containing (3,h(3))
and (6,h(6)). Express the equation in slope-intercept form.
j = -90 + 21 u
i = 90 - 21 u
```

j = -36 + 21 u

## Solution

The line passing through the two points has the slope: 
$$\underline{h\,(6)\,-h\,(3)}$$

$$= \frac{(2(6)^2+3(6))-(2(3)^2+3(3))}{3}$$
90-27

$$= \frac{90-27}{3} \\ = 21$$

= 21 using one of the points, say 
$$(3,27)$$
 and the slope to get the equation of the secant line:

j = -36 + 21 u

The equation in slope-intercep form: