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2. Given the function w(n) = 2n^2 + 3n,
find an equation of the secant line containing (3,w(3))
and (4, w(4)). Express the equation in slope-intercept form.
u = -78 + 17 n
```

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

## u = -23 + 18 n

u = 78 - 17 n

u = -24 + 17 n

u-27 = 17(n-3)

u = -24 + 17 n

The equation in slope-intercep form:

Solution

 $\frac{w(4)-w(3)}{4-3}$ 

 $= \frac{(2(4)^2+3(4))-(2(3)^2+3(3))}{1}$ 

= 17