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7. Given the function v(g) = 2g^2 + 3g,
find an equation of the secant line containing (3,v(3))
and (4,v(4)). Express the equation in slope-intercept form.
k = -78 + 17 g
k = 78 – 17 g
```

k = -24 + 17 g

Solution The line passing through the two points has the slope:

The equation in slope-intercep form:

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

k-27 = 17(g-3)

k = -24 + 17 g

 $=\frac{44-27}{1}$ = 17 using one of the points, say (3,27) and the slope to get the equation of the secant line: