```
7. Given the function e(y) = 2y^2 + 3y,
find an equation of the secant line containing (3,e(3))
and (4,e(4)). Express the equation in slope-intercept form.
t = -78 + 17 y
t = 78 - 17 y
t = -24 + 17 y
```

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

## t = -23 + 18 v

## Solution

The line passing through the two points has the slope:

= 17

t-27 = 17(y-3)

t = -24 + 17 y

The equation in slope-intercep form:

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