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1. Given the function c(y) = y^2 + 3y,
find an equation of the secant line containing (3,c(3))
and (4,c(4)). Express the equation in slope-intercept form.
n = -48 + 10 y
n = 48 - 10 y
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n = -11 + 11 y

n = -12 + 10 y

Solution

The line passing through the two points has the slope:

c(4)-c(3)

 $= \frac{(1(4)^2+3(4))-(1(3)^2+3(3))}{1}$ $= \frac{28-18}{1}$ = 10

n = -12 + 10 y

n-18 = 10(y-3)

using one of the points, say (3,18) and the slope to get the equation of the secant line: The equation in slope-intercep form: