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1. Given the function d(s) = s^2 + s,
find an equation of the secant line containing (3,d(3))
and (4,d(4)). Express the equation in slope-intercept form.
n = -36 + 8 s
n = 36 - 8s
n = -12 + 8 s
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n = -11 + 9 s

Solution

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

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

 $= \frac{20-12}{1}$

using one of the points, say (3,12) and the slope to get the equation of the secant line:

n-12 = 8(s-3)

n = -12 + 8 s

The equation in slope-intercep form: