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6. Given the function d(s) = 2s^2 + s,
find an equation of the secant line containing (3,d(3))
and (5,d(5)). Express the equation in slope-intercept form.
k = -72 + 17 s
k = 72 - 17 s
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$k = -29 + \frac{35 \text{ s}}{2}$

k = -30 + 17 s

k-21 = 17(s-3)

k = -30 + 17 s

The equation in slope-intercep form:

Solution

The line passing through the two points has the slope:

= 17

 $= \frac{(2(5)^2+1(5))-(2(3)^2+1(3))}{2}$

 $\frac{d(5)-d(3)}{5-3}$

using one of the points, say (3,21) and the slope to get the equation of the secant line: