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2. Given the function j(s) = 2s^2 + s,
find an equation of the secant line containing (3,j(3))
and (4,j(4)). Express the equation in slope-intercept form.
t = -66 + 15 s
t = 66 - 15 s
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t = -23 + 16 s

t = -24 + 15 s

Solution

The line passing through the two points has the slope: j(4)-j(3)

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

t = -24 + 15 s

= 15

t-21 = 15(s-3)

using one of the points, say (3,21) and the slope to get the equation of the secant line: The equation in slope-intercep form: