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1. Given the function u(z) = z^2 + z.
find an equation of the secant line containing (1,u(1))
and (4,u(4)). Express the equation in slope-intercept form.
a = -8 + 6z
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$a = -3 + \frac{19 z}{}$

The line passing through the two points has the slope: u(4) - u(1)

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

= 6

a-2 = 6(z-1)

a = -4 + 6z

using one of the points, say (1,2) and the slope to get the equation of the secant line:

Solution

a = -4 + 6z

The equation in slope-intercep form: