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2. Given the function d(x) = x^2 + x.
find an equation of the secant line containing (2.d(2))
and (4,d(4)). Express the equation in slope-intercept form.
a = -20 + 7 x
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a = 20 - 7 x

a = -8 + 7x

Solution

 $=\frac{20-6}{2}$

a-6 = 7(x-2)

a = -8 + 7 x

using one of the points, say (2,6) and the slope to get the equation of the secant line:

The line passing through the two points has the slope:
$$\frac{d(4)-d(2)}{4-2}$$

The equation in slope-intercep form:

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