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7. Given the function a(s) = s^2 + 4s,
find an equation of the secant line containing (2,a(2))
and (6,a(6)). Express the equation in slope-intercept form.
n = -36 + 12 s
n = 36 - 12 s
```

using one of the points, say (2,12) and the slope to get the equation of the secant line:

$n = -11 + \frac{49 \text{ s}}{.}$

n = -12 + 12 s

Solution

The line passing through the two points has the slope:

a(6)-a(2)

= 12

n-12 = 12(s-2)

n = -12 + 12 s

The equation in slope-intercep form:

 $= \frac{(1(6)^2+4(6))-(1(2)^2+4(2))}{(1(6)^2+4(6))}$