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3. Given the function s(j)=2j^2+4j,
find an equation of the secant line containing (1,s(1))
and (4,s(4)). Express the equation in slope-intercept form.
x = -20 + 14 j
x = 20 - 14 j
```

using one of the points, say (1,6) and the slope to get the equation of the secant line:

x = -8 + 14 i

Solution

 $= \frac{48-6}{3}$ = 14

x-6 = 14(j-1)

x = -8 + 14 j

The line passing through the two points has the slope:

s(4) - s(1)4-1

The equation in slope-intercep form:

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