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9. Given the function p(r) = r^2 + 3r,
find an equation of the secant line containing (3,p(3))
and (4,p(4)). Express the equation in slope-intercept form.
z = -48 + 10 r
z = 48 - 10 r
```

## z = -11 + 11 r

z = -12 + 10 r

z = -12 + 10 r

Solution

The line passing through the two points has the slope:

 $\frac{p(4)-p(3)}{4-3}$ 

 $= \frac{(1(4)^2+3(4))-(1(3)^2+3(3))}{1}$  $=\frac{28-18}{1}$ 

= 10

using one of the points, say (3,18) and the slope to get the equation of the secant line:

z-18 = 10(r-3)The equation in slope-intercep form: