

NAME: \_\_\_\_\_

*G.G.64: Find the equation of a line, given a point on the line and the equation of a line perpendicular to the given line*

1. 010834a, P.I. G.G.64

Write an equation of a line that is

perpendicular to the line  $y = \frac{2}{3}x + 5$  and that  
passes through the point (0,4).

*G.G.64: Find the equation of a line, given a point on the line and the equation of a line perpendicular to the given line*

[2] A correct equation is written, such as

$$y = -\frac{3}{2}x + 4 \text{ or } (y - 4) = -\frac{3}{2}(x - 0).$$

[1] An appropriate equation is written, but one computational error is made or one incorrect substitution is made.

[1] An appropriate equation is written, but one conceptual error is made, such as writing an equation for a parallel line going through (0,4) or for a perpendicular line that does not go through (0,4).

or [1] The slope is identified correctly as  $-\frac{3}{2}$

or the y-intercept as 4, but no equation or an incorrect equation is written.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[1] incorrect procedure.