

NAME: _____ Score _____/10

Please **print** your name**Show your work! NO WORK NO CREDIT!!!!. Organize your work!**

1. **(2 points)** Find the equation of the line with slope 4 and y-intercept 3.

Use the slope-intercept form $y = mx + b$ to obtain $y = 4x + 3$ as the desired equation.

2. **(4 points)** Find the equation of the line which passes through (2, 5) with slope 3. Write the equation in slope intercept form.

Use the point-slope form $y - y_1 = m(x - x_1)$ to obtain

$y - 5 = 3(x - 2)$ which may be rewritten in slope-intercept form.

$$y - 5 = 3x - 6$$

$$y = 3x - 1$$

3. **(2 points)** The **graph** of a function is the set of all points of the form (a, f(a)) where a is an element of the domain and f(a) is the corresponding range element.
4. **(2 points)** A **zero** of a function f is a domain element k for which $f(k) = 0$.