

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Need slope  $m$  and intercept  $b$ . Plug a point into  $y = mx + b$  to find  $b$ . Last two are challenge problems!

- 1.** Slope 2, y-intercept 5. Write the equation.

*show your work*

- 2.** Slope -3, y-intercept 0.

*show your work*

- 3.** Slope 4 through (1, 9). Find  $b$ , write the equation.

*show your work*

- 4.** Slope  $1/2$  through (4, 7).

*show your work*

5. Through  $(0, 3)$  and  $(2, 11)$ .

*show your work*

6. Slope  $-2$  through  $(3, 1)$ .

*show your work*

7. Through  $(1, 4)$  and  $(3, 10)$ .

*show your work*

8. Through  $(-2, 6)$  with slope  $-1$ .

*show your work*

9. Through (2, -1) and (-4, 11). ★ CHALLENGE

*show your work*

10. A line is parallel to  $y = 3x - 5$  and passes through (2, 4). Write its equation. ★ CHALLENGE

*show your work*