

Chapter 6 — Graphing Linear Equations and Slope

Worksheet B: Independent Practice

Name: _____ Grade: _____ Date: _____

1. A line has slope $\frac{3}{4}$ and passes through $(0,2)$. Name two more points on the line.

2. Graph: $y=2x-4$

3. Find the slope through: $(1,2)$ and $(5,10)$

4. A phone plan costs \$30 per month plus \$5 per GB. Write C in terms of g . Identify slope and intercept.

5. Graph: $y = -x + 3$

6. Find the slope through: $(-2, 4)$ and $(2, -4)$

7. Identify slope and y-intercept: $y = -4x + 9$

8. A worker earns \$18 per hour and starts with \$0. Write P in terms of h. Give three graph points.

9. Graph: $y = \frac{1}{2}x + 1$

10. Find the slope through: (3,7) and (3,-1)

11. Identify slope and y-intercept: $y = -7$

12. A taxi charges \$4 to start and \$2.50 per kilometre. Write an equation and explain slope and intercept.

13. Are $y=4x+7$ and $y=4x-2$ parallel? Explain.

14. Graph: $y=-\frac{3}{2}x+2$

15. Find the slope through: $(-5,6)$ and $(4,6)$

16. Describe the graph: $x=5$

17. A line passes through (0,6) and (2,0). Find slope and y-intercept.

18. Explain why a vertical line has undefined slope.

19. Find the slope perpendicular to $m=-2$.

20. Is (4,-1) on $y=-2x+7$? Show the check.
