Unit 1B Day 2 Review Practice — Part B

Two points, horizontal lines, and cost models

Name: _____ HR: _____ Date: _____

Directions: Show work. Questions 1–3 review prerequisite skills.

1. Solve for x. $3x - 6 = 0$	**2.** Find the slope through (−1, 2) and (3, 4).	**3.** Solve for y. $y - 4 = -2(x - 3)$

4. Write the line through (−3, −2) and (1, 6).	**5.** Write the line through (−4, 5) and (2, −7).
6. Write the line through (−2, −3) and (4, 6).	**7.** Write the line through (−3, 5) and (3, 1).
8. Write the line through (−4, −1) and (4, 5).	**9.** Write the line through (−4, 6) and (4, 2).

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10. Write a horizontal line through (−3, 4).

11. Write a horizontal line through (2, −5).

12. Write a horizontal line through (0, 7).

13. Write a horizontal line through (6, −2).

14. Write a horizontal line through (−4, 0).

15. Write a horizontal line through (5, 3).

16. A bike rental costs a \$4 fee plus \$3 per hour.

a. Write $C(x)$, where x is hours.

b. Find the hours a \$22 budget buys.

17. A taxi charges a \$3 fee plus \$0.50 per mile.

a. Write $C(x)$, where x is miles.

b. Find the miles a \$23 budget buys.

18. A print shop charges a \$2 setup fee plus \$0.15 per page.

a. Write $C(x)$, where x is pages.

b. Find the pages a \$8 budget buys.

19. Parking costs a \$5 entry fee plus \$2 per hour.

a. Write $C(x)$, where x is hours.

b. Find the hours a \$19 budget buys.

20. A phone service charges \$6 plus \$0.40 per minute.

a. Write $C(x)$, where x is minutes.

b. Find the minutes a \$22 budget buys.

21. A delivery costs a \$4 fee plus \$0.60 per mile.

a. Write $C(x)$, where x is miles.

b. Find the miles a \$25 budget buys.