Name _____ Class _____ Date _____

Practice 2-6

Worksheet # 4

Mixed Exercises

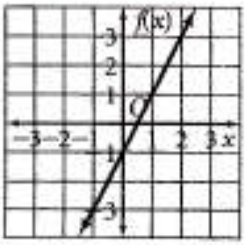
Model each rule with a table of values and a graph.

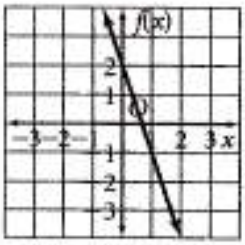
1. $f(x) = x + 1$
2. $f(x) = 2x$
3. $f(x) = 3x - 2$
4. $f(x) = \frac{3}{2}x - 2$
5. $f(x) = \frac{1}{2}x$
6. $f(x) = -\frac{2}{3}x + 1$
7. $f(x) = x^2 + 1$
8. $f(x) = -x^2 + 2$
9. $f(x) = x - 3$
10. Suppose a van gets 22 mi/gal. The distance traveled $D(g)$ is a function of the gallons of gas used.
    a. Use the rule $D(g) = 22g$ to make a table of values and then a graph.
    b. How far did the van travel when it used 10.5 gallons of gas?
    c. Should the points of the graph be connected by a line? Explain.
11. The admission to a fairgrounds is \$3.00 per vehicle plus \$.50 per passenger. The total admission is a function of the number of passengers.
    a. Use the rule $T(n) = 3 + 0.50n$ to make a table of values and then a graph.
    b. What is the admission for a car with six people in it?
    c. Should the points of the graph be connected by a line? Explain.

Model each rule with a graph.

12. $f(x) = 4x + 2$
13. $f(x) = x^2 - 2x + 1$
14. $f(x) = -3x + 7$
15. $f(x) = x^2 - 3$
16. $f(x) = 8 - \frac{3}{4}x$
17. $f(x) = \frac{2}{3}x - 7$
18. $f(x) = -\frac{2}{5}x + 6$
19. $f(x) = x^2 - 5$
20. $f(x) = -\frac{1}{2}x + 3$
21. $y = 5x - 10$
22. $y = 9 - x^2$
23. $y = 10 - 3x$

Make a table of values for each graph.

24. 

25. 

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