Name Date

Review of 4.1 and 4.24.1

Write an equation of the line with the given slope and *y*-intercept.

1. slope: 3; *y*-intercept:  2. slope:  *y*-intercept: 9

3. slope:  *y*-intercept: 0 4. slope: 5; *y*-intercept: 

Write an equation of the line that passes through the   
given points.

5.  6. 

7.  8. 

9. 

Write a linear function *f* with the given values.

10.  11. 

12. 

13. The water park charges $125 for a birthday party. Guests cost   
$12 each. Write a linear model that represents the total cost of   
a birthday party *y* as a function of the number of guests *x*.

Write an equation in point-slope form of the line that passes through the given point and has the given slope.

1.  2. 

3.  4. 

Write an equation in slope-intercept form of the line that passes through the given points.

5.  6. 

7.  8. 

Write a linear function *f* with the given values.

9.  10. 

11.  12. 

13. You pay a registration fee and a monthly fee to join a local fitness center. The table shows the total cost of joining the fitness center for different numbers of months. Write an equation that represents the total cost (in dollars) of joining the fitness center as a function of the number of months.

|  |  |  |  |
| --- | --- | --- | --- |
| Months, *x* | 3 | 5 | 7 |
| Total cost (dollars), *f*(*x*) | 100 | 140 | 180 |