Write an equivalent equation for each of the following:

1. $y = x - 5$

2. $y = \dfrac{1}{3}x + 9$

3. Jose bought hamburgers and hotdogs. A package of hamburgers cost $7.50 and a package of hotdogs is $4. If he spent a total of $35, write an equation representing the possible combinations of hamburgers and hotdogs he could have purchased. (If slope-intercept form, write in 2 ways.)

4. Six Flags charges a fee to enter the amusement park and then $2 per ride that you go on. If the total cost is $39 when you ride 7 rides, write an equation representing how much it is going to cost to be at the park. (If slope-intercept form, write in 2 ways.)

5. How much will it cost if you want to ride 25 rides?

6. You have $208 and start spending the same amount each month. After 9 months, you still have $64. Write an equation representing how much money you have. (If slope-intercept form, write in 2 ways.)

7. How many months will it take for you to run out of money?

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8. Blockbuster used to charge a membership fee and then $2.50 per movie rented. If it cost $30.50 to rent 7 movies, write an equation to determine how much it cost. (If slope-intercept form, write in 2 ways.)

9. If your monthly cost was at Blockbuster was $23, how many movies did you rent?

10. Rachel made 48 cookies and starts giving away the same amount to people. If she was able to give cookies to 8 people, write an equation representing the situation. (If slope-intercept form, write in 2 ways.)

11. **BONUS:** You have $x$ nickels, $y$ dimes, and $z$ quarters. You have $42 altogether. Write an equation that describes all possible amounts of coins. (The answer is NOT in the answer key.)

| 75 | $y = -16x + 208$ | $y = 2x + 25$ | $y = -5 + x$ |
|---|---|---|---|
| $7.5x + 4y = 35$ | $y = 13 + 2.5x$ | 4 | $y = 9 + \dfrac{1}{3}x$ |
| $y = 2.5x + 13$ | $y = -6x + 48$ | 13 | $y = 25 + 2x$ |
| $y = 208 - 16x$ | 13 | $y = 48 - 6x$ | |

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