English Spanish

2.5–2.7 Quiz

Check It Out
Progress Check
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Solve the system of linear equations algebraically. *(Section 2.5)*

1. $y = 4 - x$
$y = x - 4$

2. $y = \frac{x}{2} + 10$
$y = 4x - 4$

Use the table to find the break-even point. Check your solution. *(Section 2.5)*

3. $C = 10x + 180$
$R = 46x$

x	0	1	2	3	4	5	6
C							
R							

Solve the system of linear equations using a graph. *(Section 2.5)*

4. $y = 3x + 2$
$y = x + 4$

5. $y = -3x - 1$
$y = -2x + 5$

Solve the system of linear equations using any method. *(Section 2.6)*

6. $y = 2x - 3$
$y - 6x = -9$

7. $y = 4x + 8$
$2y - 8x = 18$

Use a graph to solve the equation. Check your solution. *(Section 2.7)*

8. $\frac{1}{4}x - 4 = \frac{3}{4}x + 2$

9. $8x - 14 = -2x - 4$

10. BASKETBALL You score 24 points in a basketball game. You make 9 shots. How many three-point shots and two-point shots do you make? *(Section 2.5)*

Number of three-point shots, x	+	Number of two-point shots, y	=	9

Value of a three-point shot	•	Number of three-point shots, x	+	Value of a two-point shot	•	Number of two-point shots, y	=	24

11. BICYCLE One day, you ride $2x + 5$ kilometers on your bicycle. The next day, you ride $3x$ kilometers. Is it possible that you rode the same distance each day? Explain. *(Section 2.7)*

12. TEMPERATURE Two students write the expressions $\frac{1}{2}x + 49$ and $2x - 5$ to represent today's high temperature (in degrees Fahrenheit). What is today's high temperature? *(Section 2.7)*