EX Solve	ERCISE A each system of equation	SECTION 2-2					
1)	y = 3x - 4 $y = 4 + x$	2)	4x + 2y = 10 x + 3y = 10	3)	$\begin{aligned} x - y &= 2\\ -2x + 3y &= 3 \end{aligned}$	4)	3x - 2y = -1 $4x + y = 17$

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Solve each system of equations using the elimination method.

Solve each system using whichever method seems best.

9) 2x + 8y = 52x - 5y = -1010) 4y - 3x = 4 $y = \frac{1}{2}x - 3$ 11) -3x + 5y = 126x - 10y = -21

EXERCISE B

Solve each system of equations using the substitution method.

12)2x - 3y = 313)2x + y = 1114)3x + 2y = -315)2x + 4y = 6x = 14 - y6x - 2y = -2 $x + \frac{1}{3}y = -4$ 7x = 4 + 3y

Solve each system of equations using the elimination method.

16)	$\mathbf{x} + \mathbf{y} = 7$	17)	4x - 5y = 17	18)	2x + 6y = 14	19)	6x + 3y = 12
	2x + y = 11		3x + 4y = 5		$-\frac{7}{3}+\frac{1}{3}x = -y$		2x = 8 - y

Solve each system using whichever method seems best.

EXERCISE C

23) All 28 members of the IV Ski Club went on a one-day ski trip. Some members rented skis for \$16 per day, while others rented snowboards for \$19 per day. The club paid a total of \$478 for rental equipment.

- a) Write a system of equations to represent the number of members who rented the two types of equipment.
- b) Solve to determine how many members rented skis and how many rented snowboards.



24) Megan exercises every morning for 40 minutes. She does a combination of step aerobics, which burns 11 calories per minute, and stretching, which burns about 4 calories per minute. Her goal is to burn 335 calories.

- a) Write a system of equations to represents Megan's workout.
- b) How long should she do each activity to achieve her goal?

ANSWERS:

- (4, 8)
 (9, 7)
- 5) (9, 7) 5) (4, -1)
- 7) (5, 2)

- 9) (10, 4)
- 11) no solution
 13) (2, 7)
- (2, 7)15) (1, 1)

- 17) (3, -1)
- 19) no solution
- 21) no solution
- 23a) x + y = 28 & 16x + 19y = 478
 - b) 18skis, 10snowboards