



Linear Equation Systems - Simple Variable Substitution To Equation

1 Substitute the second variable equation into the first equation to form a single solvable equation

$$z = 7m - 5$$

$$z = 6m + 0$$

$$m = ?$$

- A $7m - 5 = 6m + 0$
- B $7m + 5 = 6m + 0$
- C $7m - 5 = 8m + 0$
- D $7m + 5 = 8m + 0$
- E $7m - 0 = 6m + 0$
- F $5m + 6 = 0$

2 Substitute the second variable equation into the first equation to form a single solvable equation

$$p = 10t - 9$$

$$p = 5t + 26$$

$$t = ?$$

- A $9t + 5 = 26$
- B $9t - 9 = 5t + 26$
- C $10t - 9 = 5t + 26$
- D $10t - 26 = 5t + 26$
- E $10t - 9 = 10t + 26$
- F $9t + 9 = 5t + 26$

3 Substitute the second variable equation into the first equation to form a single solvable equation

$$x = 7y - 4$$

$$x = 5y + 10$$

$$y = ?$$

- A $4y + 5 = 10$
- B $9y + 4 = 5y + 10$
- C $7y - 4 = 10y + 10$
- D $9y - 4 = 5y + 10$
- E $7y - 10 = 5y + 10$
- F $7y - 4 = 5y + 10$

4 Substitute the second variable equation into the first equation to form a single solvable equation

$$t = 12y - 5$$

$$t = 9y + 7$$

$$y = ?$$

- A $12y - 7 = 9y + 7$
- B $12y - 5 = 7y + 7$
- C $5y + 9 = 7$
- D $6y - 5 = 9y + 7$
- E $6y + 5 = 9y + 7$
- F $12y - 5 = 9y + 7$

5 Substitute the second variable equation into the first equation to form a single solvable equation

$$q = 12t - 5$$

$$q = 8t + 7$$

$$t = ?$$

- | | |
|--------------------|-------------------|
| A | B |
| $12t - 5 = 6t + 7$ | $5t - 5 = 8t + 7$ |
| C | D |
| $12t - 7 = 8t + 7$ | $5t + 8 = 7$ |
| E | F |
| $12t - 5 = 8t + 7$ | $5t + 5 = 8t + 7$ |

6 Substitute the second variable equation into the first equation to form a single solvable equation

$$x = 8w - 9$$

$$x = 4w + 19$$

$$w = ?$$

- A $9w + 4 = 19$
- B $8w - 9 = 4w + 19$
- C $9w - 9 = 4w + 19$
- D $8w - 19 = 4w + 19$
- E $8w - 9 = 10w + 19$
- F $9w + 9 = 4w + 19$

7 Substitute the second variable equation into the first equation to form a single solvable equation

$$m = 6n + 12$$

$$m = 3n + 24$$

$$n = ?$$

- A $6n - 12 = 3n + 24$
- B $6n - 12 = 7n + 24$
- C $6n + 12 = 3n + 24$
- D $6n - 24 = 3n + 24$
- E $6n + 12 = 7n + 24$
- F $12n + 3 = 24$

8 Substitute the second variable equation into the first equation to form a single solvable equation

$$p = 5m - 6$$

$$p = 3m + 6$$

$$m = ?$$

- A $8m - 6 = 3m + 6$
- B $8m + 6 = 9m + 6$
- C $6m + 3 = 6$
- D $5m - 6 = 3m + 6$
- E $8m + 6 = 3m + 6$
- F $5m - 6 = 9m + 6$