



Linear Equation Systems - Simple Variable Substitution To Equation

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

$$12r - p = 9$$

$$p = 9r$$

$$r = ?$$

A $12r - 5r = 9$ B $12r + 9r = 9$

C $6r + 9 = r$ D $12r + 5r = 9$

E $12r + 9 = 9$ F $12r - 9r = 9$

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

$$5n + m = 60$$

$$m = 7n$$

$$n = ?$$

A $5n + 7n = 60$ B $5n + 7 = 60$

C $5n - 8n = 60$ D $5n + 6n = 60$

E $5n - 7n = 60$ F $8n + 7 = n$

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

$$8x + p = 48$$

$$p = 8x$$

$$x = ?$$

A $8x - 5x = 48$ B $8x + 4x = 48$

C $6x + 8 = x$ D $8x + 8 = 48$

E $8x + 8x = 48$ F $8x + 5x = 48$

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

$$6x + m = 75$$

$$m = 9x$$

$$x = ?$$

A $8x + 9 = x$ B $6x + 9x = 75$

C $6x - 7x = 75$ D $6x + 6x = 75$

E $6x + 9 = 75$ F $6x + 7x = 75$

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

$$9m - z = 15$$

$$z = 4m$$

$$m = ?$$

A $6m + 4 = m$ B $9m + 4m = 15$

C $9m + 4 = 15$ D $9m - 5m = 15$

E $9m - 4m = 15$ F $9m + 5m = 15$

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

$$9z + w = 100$$

$$w = 11z$$

$$z = ?$$

A $9z + 7z = 100$ B $9z + 6z = 100$

C $8z + 11 = z$ D $9z - 7z = 100$

E $9z + 11 = 100$ F $9z + 11z = 100$

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

$$6p + z = 135$$

$$z = 9p$$

$$p = ?$$

A $6p + 9 = 135$ B $6p + 10p = 135$

C $12p + 9 = p$ D $6p - 11p = 135$

E $6p + 9p = 135$ F $6p + 11p = 135$

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

$$3t + n = 20$$

$$n = 7t$$

$$t = ?$$

A $3t + 7t = 20$ B $3t - 4t = 20$

C $3t + 4t = 20$ D $3t + 7 = 20$

E $5t + 7 = t$ F $3t + 3t = 20$