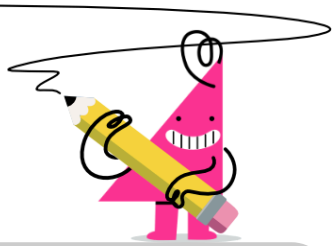
Name



Linear Equation Systems - Simple Equation Substitution To Equation

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

$$7x + y = 51$$
$$y = 2x + 6$$
$$x = ?$$

A $6x + 2x + 3 = 51$
B $7x + 2x + 4 = 6$
C $7x + 6x - 7 = 51$
D $7x + 2x + 6 = 51$
E $7x + 6x + 7 = 51$
F $6x - 2x - 3 = 51$

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

$$5d + r = 72$$
$$r = 3d + 8$$
$$d = ?$$

A $10d + 3d + 8 = 72$
B $9d - 3d - 6 = 72$
C $9d + 3d + 6 = 72$
D $5d + 3d + 7 = 9$
E $5d + 3d + 8 = 72$
F $5d + 9d + 10 = 72$

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

$$7r + b = 97$$
$$b = 10r + 12$$
$$r = ?$$

A $7r + 10r + 4 = 6$
B $6r - 10r - 3 = 97$
C $7r + 6r - 7 = 97$
D $6r + 10r + 3 = 97$
E $7r + 10r + 12 = 97$
F $7r + 6r + 7 = 97$

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

$$11p - d = 36$$
$$d = 3p + 4$$
$$p = ?$$

A $6p - 3p - 3 = 36$
B $11p - 6p + 7 = 36$
C $11p - 3p - 4 = 6$
D $11p - 3p - 4 = 36$
E $7p + 3p - 4 = 36$
F $6p - 3p + 3 = 36$

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

$$9c + z = 86$$
$$z = 5c + 2$$
$$c = ?$$

A $9c + 7c + 8 = 86$
B $7c - 5c - 4 = 86$
C $7c + 5c + 4 = 86$
D $9c + 5c + 2 = 86$
E $9c + 5c + 5 = 7$
F $8c + 5c + 2 = 86$

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

$$10y - z = 7$$
$$z = 5y + 3$$
$$y = ?$$

A $10y - 3y + 4 = 7$
B $3y - 5y - 0 = 7$
C $3y - 5y + 0 = 7$
D $10y - 5y - 1 = 3$
E $4y + 5y - 3 = 7$
F $10y - 5y - 3 = 7$

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

$$11z + p = 58$$
$$p = 5z + 10$$
$$z = ?$$

A $4z - 5z - 1 = 58$
B $11z + 4z + 5 = 58$
C $5z + 5z + 10 = 58$
D $4z + 5z + 1 = 58$
E $11z + 5z + 10 = 58$
F $11z + 5z + 2 = 4$

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

$$12c + d = 108$$
$$d = 3c + 3$$
$$c = ?$$

A $8c - 3c - 5 = 108$
B $12c + 3c + 3 = 108$
C $9c + 3c + 3 = 108$
D $12c + 8c + 9 = 108$
E $8c + 3c + 5 = 108$
F $12c + 3c + 6 = 8$