



Math worksheet on 'Linear Equation Systems - Simple Variable Substitution (Level 3)'. Part of a broader unit on 'Algebra Systems of Equations - Intro'

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1 Solve for the variable by substituting the second equation into the first

$$m = 4y - 4$$

$$m = 3y + 5$$

$$y = ?$$

a	b	c
$y = 9$	$y = 11$	$y = 8$
d	e	f
$y = 10$	$y = 7$	$y = 12$

2 Solve for the variable by substituting the second equation into the first

$$x = 12r + 10$$

$$x = 11r + 17$$

$$r = ?$$

a	b	c
$r = 7$	$r = 5$	$r = 6$
d	e	f
$r = 9$	$r = 8$	$r = 10$

3 Solve for the variable by substituting the second equation into the first

$$d = 9p - 5$$

$$d = 6p + 10$$

$$p = ?$$

a	b	c
$p = 3$	$p = 4$	$p = 6$
d	e	f
$p = 8$	$p = 7$	$p = 5$

4 Solve for the variable by substituting the second equation into the first

$$b = 10y - 9$$

$$b = 7y + 12$$

$$y = ?$$

a	b	c
$y = 7$	$y = 6$	$y = 10$
d	e	f
$y = 8$	$y = 9$	$y = 5$

5 Solve for the variable by substituting the second equation into the first

$$d = 11y - 6$$

$$d = 3y + 10$$

$$y = ?$$

a	b	c
$y = 2$	$y = 1$	$y = 4$
d	e	f
$y = 0$	$y = 5$	$y = 3$

6 Solve for the variable by substituting the second equation into the first

$$m = 12d - 6$$

$$m = 9d + 21$$

$$d = ?$$

a	b	c
$d = 8$	$d = 12$	$d = 10$
d	e	f
$d = 9$	$d = 7$	$d = 11$

7 Solve for the variable by substituting the second equation into the first

$$r = 11x + 5$$

$$r = 3x + 69$$

$$x = ?$$

a	b	c
$x = 6$	$x = 8$	$x = 11$
d	e	f
$x = 9$	$x = 10$	$x = 7$