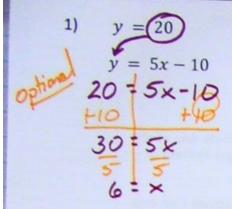
Solving Systems by Substitution

NOTES



Check solutions

$$y = 20$$
 $y = 5x - 10$
 $20 = 20$ $20 = 5.6 - 10$
 $20 = 30 - 10$

3)
$$y = x + 5$$

 $y = 2x - 12$
 $+5 = 2x + 12$
 $-1x$
 $-1x$
 $+12$
 $+12$
 $+12$
 $+12$
 $+12$

Check solutions

$$y = x + 5$$
 $y = 2x - 12$
 $22 = 17 + 5$ $22 = 2 \cdot 17 - 12$
 $22 = 34 - 12$

2)
$$y = 5x$$

 $y = 2x + 9$
 $5x = 2x + 9$
 $3x = 9$
 $x = 3$
Solution: (3.15)

Check solutions

$$y = 5x$$
 $y = 2x + 9$
 $15 = 5.3$ $15 = 2.3 + 9$
 $15 = 6 + 9$

Solving Systems by Substitution...

- 1) Substitute to make one equation with one variable.
- 2) Solve the equation by UNDOING the order of operations.
- Substitute your solution back in for your known variable to calculate the second value.
- 4) Write your solution as a coordinate point.
- 5) Check your solution by substituting your solution back into both equations.