

Unit 6 Practice Test

Name: Key
Date: _____

Solving Systems of Equations

1. Which ordered pair is a solution of the system?

$$\begin{cases} 3y - 4x = 29 \\ x = -2 \end{cases} \rightarrow \begin{aligned} 3y - 4(-2) &= 29 \\ 3y + 8 &= 29 \\ 3y &= 21 \\ y &= 7 \end{aligned}$$

a) $(3, -2)$

b) $(2, 7)$

c) $(2, 3)$

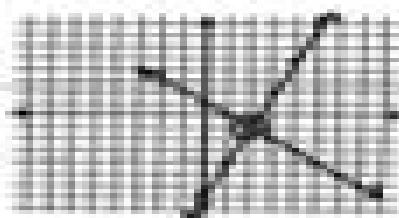
d) $(2, -7)$

Solving Systems of Equations by Graphing

2. $\begin{cases} y = 3x - 7 \\ y = -x + 1 \end{cases}$

Solution:

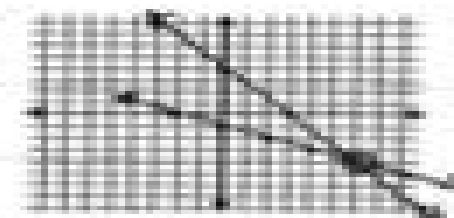
$(2, -1)$



3. $\begin{cases} 4x + 3y = 12 \\ 3x + 6y = 6 \end{cases}$

Solution:

$(6, -4)$



• $\frac{12}{4} = 3$ and $\frac{6}{3} = 2$ (Check - up there cut!)

Solving Systems of Equations using the Substitution method.

4. $\begin{cases} y = 4x - 2 \\ y = 2x + 4 \end{cases}$

$$\begin{aligned} 4x - 2 &= 2x + 4 \\ -2x &= 6 \\ x &= -3 \end{aligned}$$

$y = 4(-3) - 2$

$y = -12 - 2$

$y = -14$

$(-3, -14)$

5. $\begin{cases} y = 5x + 1 \\ 8x + 2y = -2 \end{cases}$

$$\begin{aligned} 8x + 2(5x + 1) &= -2 \\ 8x + 10x + 2 &= -2 \\ 18x &= -4 \\ x &= -\frac{2}{9} \end{aligned}$$

$x = -\frac{2}{9}$

$y = 5(-\frac{2}{9}) + 1$

$y = -\frac{10}{9} + \frac{9}{9}$

$y = -\frac{1}{9}$

$(-\frac{2}{9}, -\frac{1}{9})$

6. $\begin{cases} 2x - 3y = 4 \\ 5x - 2y = 8 \end{cases}$

$$\begin{aligned} 2x - 3y &= 4 \\ 5(-2y + 8) - 2y &= 4 \\ -10y + 40 - 2y &= 4 \\ -12y &= -36 \\ y &= 3 \end{aligned}$$

$y = 3$

$(2, 3)$

Solving Systems of Equations using the Elimination method.

7. $\begin{cases} -x + y = 10 \\ 2x - y = -14 \end{cases}$

$$\begin{aligned} -x + y &= 10 \\ 2x - y &= -14 \\ \hline x &= -4 \end{aligned}$$

$2(-4) - y = -14$

$-8 - y = -14$

$-y = -6$

$y = 6$

$(-4, 6)$

8. $\begin{cases} 3x - 4y = 19 \\ 2x + 3y = -1 \end{cases}$

$$\begin{aligned} 3x - 4y &= 19 \\ 14x + 5y &= -20 \\ \hline 17x &= -1 \end{aligned}$$

$x = -\frac{1}{17}$

$3(-\frac{1}{17}) - 4y = 19$

$-\frac{3}{17} - 4y = 19$

$-4y = 19 + \frac{3}{17}$

$-4y = \frac{322}{17}$

$y = -\frac{80.5}{17}$

$(-\frac{1}{17}, -\frac{80.5}{17})$

9. $\begin{cases} 3x - 2y = 7 \\ -2x - 3y = -1 \end{cases}$

$$\begin{aligned} 3x - 2y &= 7 \\ -2x - 3y &= -1 \\ \hline 5x - 5y &= 6 \end{aligned}$$

$x - y = \frac{6}{5}$

$3(-\frac{6}{5}) - 2y = 7$

$-\frac{18}{5} - 2y = 7$

$-2y = 7 + \frac{18}{5}$

$-2y = \frac{53}{5}$

$y = -\frac{53}{10}$

$(-\frac{6}{5}, -\frac{53}{10})$

Answers For Algebra 1 Unit 6 Test

Thomas J. McHale, Paul T. Witzke



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