

Unit 6 Practice Test

Name: _____

Date: _____

Key

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) $(2, 3)$

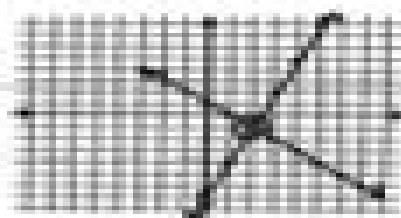
d) $(-2, -7)$

Solving Systems of Equations by Graphing

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

Solution:

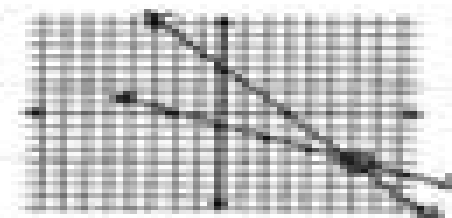
$(2, -1)$



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

$y = 4(-3) - 2$

$(-3, -14)$

$y = 12 - 2$

$y = 10$

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

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

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

$y = -\frac{10}{9} + 1$

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

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

$y = 3$

$(2, 5)$

Solving Systems of Equations using the Elimination method.

7. $\begin{cases} -x + y = 10 \\ 2x - y = -14 \end{cases}$
 $-x + y = 10$
 $2x - y = -14$
 $2(-10) - y = -14$
 $-20 - y = -14$
 $-y = 6$
 $y = -6$

$(-4, 6)$

8. $\begin{cases} 3x - 4y = 19 \\ 2x + 3y = -1 \end{cases}$
 $3(3x - 4y = 19)$
 $9x - 12y = 57$
 $14x + 21y = -28$
 $17x = 29$
 $x = \frac{29}{17}$

$x = 1$

$(1, -4)$

$3(1) - 4y = 19$

$3 - 4y = 19$

$-4y = 16$

$y = -4$

9. $\begin{cases} 3x - 2y = 7 \\ -2x - 3y = -1 \end{cases}$
 $3(3x - 2y = 7)$
 $9x - 6y = 21$
 $-2(-2x - 3y = -1)$
 $4x + 6y = 2$
 $-14x = 19$
 $x = -\frac{19}{14}$

$x = -1$

$(-1, -2)$

$3(-1) - 2y = 7$

$-3 - 2y = 7$

$-2y = 10$

$y = -5$

Answers For The Algebra 1 Unit 6 Test

Kaplan Test Prep



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