

Name : _____

Systems of Equations

Sheet 1

A) Determine whether the ordered pair is a solution to the given system of equations.

1) $(1, 5)$;
$$\begin{aligned} -5m + 6n &= 25 \\ -7m + 8n &= 33 \end{aligned}$$

2) $(-2, 0)$;
$$\begin{aligned} 8x - 3y &= -16 \\ 50 &= -9x - 2y \end{aligned}$$

3) $(7, -4)$;
$$\begin{aligned} 9b + 4a &= -8 \\ 6a + 5b - 42 &= 0 \end{aligned}$$

4) $(-3, -2)$;
$$\begin{aligned} -7c - 4d &= 29 \\ 3c &= -7 + d \end{aligned}$$

B) Check whether $(6, 9)$ is a solution of the systems of linear equations.

5)
$$\begin{aligned} s + 7t &= 69 \\ 6t + 4s &= 78 \end{aligned}$$

6)
$$\begin{aligned} -2p + 5q &= 34 \\ -7q &= -61 - 8p \end{aligned}$$

C) Write a system of linear equations that has the solution $(4, 3)$.

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Answer key

Sheet 1

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A) Determine whether the ordered pair is a solution to the given system of equations.

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 $-7m + 8n = 33$

2) $(-2, 0)$; $8x - 3y = -16$
 $50 = -9x - 2y$

Yes

No

3) $(7, -4)$; $9b + 4a = -8$
 $6a + 5b - 42 = 0$

4) $(-3, -2)$; $-7c - 4d = 29$
 $3c = -7 + d$

No

Yes

B) Check whether $(6, 9)$ is a solution of the systems of linear equations.

5) $s + 7t = 69$
 $6t + 4s = 78$

6) $-2p + 5q = 34$
 $-7q = -61 - 8p$

Yes

No

C) Write a system of linear equations that has the solution $(4, 3)$.
(Answer may vary)

$3u + v = 15$; $-5u + 4v = -8$