Systems of Equations

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

1)   (1, 5) ; $-5m + 6n = 25$
            $-7m + 8n = 33$

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

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

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

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

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

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

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

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

<u>**Yes**</u>

<u>**No**</u>

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<u>**No**</u>

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<u>**Yes**</u>

<u>**No**</u>

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

<u>**$3u + v = 15$; $-5u + 4v = -8$**</u>