

Systems of Linear Equations Test # 2

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Knowledge

1. Solve the system of equations by substitution: [K 3]

$$7x - y = 21, \quad (1)$$

$$5y + 3x = -29. \quad (2)$$

Solution

From (1): $y = 7x - 21$ (3)

Substitute (3) into (2):

$$5(7x - 21) + 3x = -29, \quad 35x - 105 + 3x = -29, \quad 38x = 105 - 29, \\ 38x = 76, \quad x = 2.$$

Substitute $x = 2$ into (3): $y = 7(2) - 21 = -7$.

Answer: $x = 2, y = -7$.

Check:

$$\begin{aligned} 1) \quad 7x - y &= 21 \\ 7(2) - (-7) &= 21 \\ 14 + 7 &= 21 \\ 21 &= 21 \quad \checkmark \end{aligned}$$

$$\begin{aligned} 2) \quad 5y + 3x &= -29 \\ 5(-7) + 3(2) &= -29 \\ -35 + 6 &= -29 \\ -29 &= -29 \quad \checkmark \end{aligned}$$

2. Solve the system of equations by elimination: [K 3]

$$8x - 3y = 22,$$

$$6x + 12y = -12.$$

Solution

$$\begin{array}{rcl} 8x - 3y = 22 & \times 2 & 16x - 6y = 44 \\ 6x + 12y = -12 & \div 2 & + \quad 3x + 6y = -6 \\ \hline 19x & & = 38 \implies x = 2 \end{array}$$

Substitute into the first equation:

$$8(2) - 3y = 22, \quad 16 - 3y = 22, \quad -3y = 22 - 16, \quad -3y = 6, \quad y = -2.$$

Answer: $x = 2, y = -2$.

System Of Linear Equations Test

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