Do Now

Solve the system using substitution method. - Remember to check if possible

x + y = 8

y = 3x

$x + 3x = 8$

$\frac{4x}{4x} = \frac{8}{4x}$

$\boxed{x=2}$

$y = 3x$

$y = 3(2)$

$y = 6$

$(2, 6)$

check

$x + y = 8$ $y = 3x$

$2 + 6 = 8$ $y = 3(2)$

$8 = 8$ ✓ $6 = 6$ ✓

Solve the system graphically - Remember to check if possible

x - 3y = 21

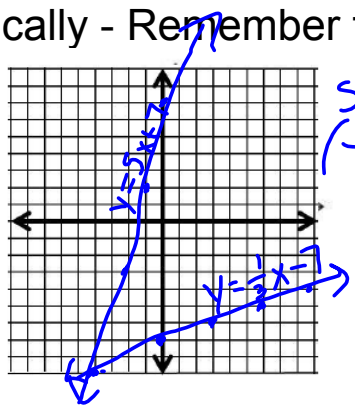
y = 5x + 7

$x - 3y = 21$

$-x \quad -x$

$\frac{-3y}{-3} = \frac{-x}{-3} + \frac{21}{-3}$

$y = \frac{1}{3}x - 7$



Solution

$(-3, -8)$

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Homework Answers

1. (2, 5)
2. (3, -2)
3. Infinite Number of Solutions
4. No Solutions

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Solve the System using Substitution

$7x - 2y = 1$

$2y = x - 1 \longrightarrow x =$

$+1 \quad +1$

$\boxed{2y+1} = x$

$7x - 2y = 1$

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

$14y + 7 - 2y = 1$

$12y + 7 = 1$

$-7 \quad -7$

$\frac{12y}{12} = \frac{-6}{12}$

$y = -\frac{1}{2}$

$7x - 2y = 1$

$7x - 2\left(-\frac{1}{2}\right) = 1$

$7x + 1 = 1$

$-1 \quad -1$

$\frac{7x}{7} = \frac{0}{7}$

$x = 0$

Solution $\left(0, -\frac{1}{2}\right)$

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