



Solve the following system using elimination.

$$\frac{x-2}{3} - \frac{y+2}{5} = 2$$

$$\frac{3}{5}(x+1) - \frac{4}{5}(y-3) = \frac{21}{2}$$

Complete Assignment Questions #3 - #11

Assignment

1. In each of the following systems:

- solve the system using the method of elimination
- verify the solution satisfies both equations
- check the solution by graphing

a) $x + 2y = 3$
 $-x + 3y = 2$

b) $2a + 5b = 16$
 $a - b = 1$

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c) $4x - 3y = 9$
 $2x - 5y = 1$

d) $2x + 4y = 7$
 $4x - 3y = 3$

2. Solve each of the following systems by elimination. Check each solution.

a) $7e + 4f - 1 = 0$, $5e + 2f + 1 = 0$

b) $5x = 8y$, $4x - 3y + 17 = 0$

c) $5x - 2y = 0.6$, $2x + y = 1.5$

d) $3x + 2y - 6 = 0$, $x = y + 1$

3. Solve each of the following systems by elimination.

$$\begin{aligned} \text{a) } 3x - \frac{1}{2}y &= 5 \\ \frac{1}{3}x + \frac{1}{4}y &= 3 \end{aligned}$$

$$\begin{aligned} \text{b) } \frac{m}{2} - \frac{n+3}{4} &= 2 \\ \frac{3m}{4} - \frac{n}{5} &= 5 \end{aligned}$$

$$\begin{aligned} \text{c) } \frac{1}{2}(2x - y) + \frac{3}{4}x &= 6 \\ \frac{1}{2}x - \frac{1}{3}y &= \frac{2}{3} \end{aligned}$$

$$\begin{aligned} \text{d) } \frac{2x+y}{3} - 5 &= 0 \\ \frac{3x-y}{5} &= 1 \end{aligned}$$

