Simultaneous Equations Elimination Method Grade 11

The following questions have been solved incorrectly. Find the mistake in each question, make the corrections and find the correct solutions.

$$12x - 6y = 12$$

 $10x + 6y = 32$

Subtracting

$$\begin{array}{rcl}
2x & = -20 \\
\underline{2x} & = \underline{-20} \\
2 & 2
\end{array}$$

$$x = -10$$

Substitute x = -10 into equation 2

$$10 (-10) + 6y = 32$$

$$-100 + 6y = 32$$

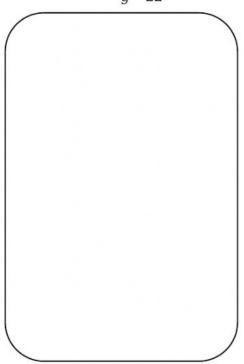
$$6y = 32 + 100$$

$$6y = 132$$

$$\underline{6y} = 132$$

$$\underline{6y} = 6$$

$$y = 22$$



$$3x + 2y = 14$$
$$4x + 2y = 16$$

Subtracting

$$x = -2$$

Substitute x = -2 into equation 1

$$3(-2) + 2y = 14$$

$$-6 + 2y = 14$$

$$2y = 14 + 6$$

$$2y = 20$$

$$2y = 20$$

$$2 = 20$$

$$y = 10$$

