1. Solve the simultaneous equations

    $$3x + y = 5$$

    $$3x - 4y = 10$$

    {FYI Avoid many negative number problems, by 2nd equation $\times$ -1 (changes all signs)}

    Is there another method you know to solve these?

    $$3x + y = 5$$

    $$3x - 4y = 10$$

    . . . .

2. Solve the simultaneous equations

$$3y - 5x = 29$$

$$3y - 2x = 17$$

{FYI Avoid many negative number problems, by 1st equation × -1 (changes all signs)}

. . . .

3. Solve the simultaneous equations

$$3x + y = 5$$

$$4x + y = 6.5$$

{FYI Avoid many negative number problems, by 1st equation × -1 (changes all signs)}

. . . .

4. Solve the simultaneous equations

$$5x + 2y = 18$$

$$3x + 2y = 12$$

{FYI Avoid many negative number problems, by 2nd equation × -1 (changes all signs)}

. . . .

Answers

1. x = 2, y = -1

   1st method: as suggested gives 5y = -5

   2nd method: 1st equation × 4, to get 15x = 30

2. x = -4, y = 3

3. x = 1.5, y = 0.5

4. x = 3, y = 1.5