



QT - Solving by substitution

1. Solve:

$$y - 2x = 3$$

$$x^2 + y^2 = 18$$



2. Solve:

$$x - 2y = 1$$

$$x^2 + y^2 = 13$$



3. Solve, giving your answer correct to 2 decimal places:

$$x + y = 2$$

$$x^2 + y^2 = 9$$



4. Solve:

$$y = x^2 + x - 7$$

$$4x + 2y + 1 = 0$$



5. Solve:

$$y = x - 2$$

$$2x^2 - xy = 11$$



6. L is the straight line with equation $y = x + 2$

C is the circle with equation $x^2 + y^2 = 34$

The line intersects the circle at two points.

Find the coordinates of both points.