Y1 Algebra and Functions | Simultaneous Equations

Question 1

Solve these simultaneous equations:

$$x^2 + y^2 = 10$$

$$y + 2 = x$$

Question 2

Solve the simultaneous equations

$$y = x^2 - 6x$$

$$2y + x - 6 = 0$$

Question 3

Solve the simultaneous equations

$$x^2 + y^2 = 34$$

$$3x - y + 4 = 0$$

Question 4

The line l_1 has equation $y = 3x + 2$ and the line l_2 has equation $3x + 2y - 8 = 0$.

The point of intersection of l_1 and l_2 is P. Find the coordinates of P .

Question 5

Solve the simultaneous equations

$$2x + y - 5 = 0$$

$$x^2 - y^2 = 3$$

Question 6

Solve the simultaneous equations

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

$$y^2 + 5x^2 + 2x = 0$$