## Quadratic Simultaneous Equations

**Exam Style Questions** 

1. Solve the following simultaneous equations

$$y = x^2 + 8x + 17$$

$$y = 13x + 31$$

 $x = \dots$ 

*y* = .....

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

$$y = x + 2$$

 $x = \dots$ 

$$x^2 + 3y^2 = 28$$
$$y = x + 2$$

$$y = x + 2$$

 $x = \dots$ 

$$x^2 + y^2 = 65$$

$$x - y + 7 = 0$$

 $x = \dots$ 

*y* = .....

$$x^2 + y^2 = 1$$
$$x - y = 1$$

$$x - y = 1$$

 $x = \dots$ 

 $y = \dots$ 

$$x^2 + 2y^2 = 20$$
$$x = y + 3$$

Give your answers correct to 2 decimal places.

 $x = \dots$ 

*y* = .....

$$x^2 + y^2 = 6$$
$$y = 3x - 4$$

Give your answers correct to 2 decimal places.

 $x = \dots$ 

*y* = .....

$$x^{2} - y^{2} = 5.25$$
$$2x + 3y = 4$$

$$2x + 3y = 4$$

 $x = \dots$ 

 $y = \dots$