

$$x + y = 1; \quad (x-2)^2 + (y+1)^2 = 8 \quad \left[(a-b)^2 = a^2 - 2ab - b^2 \right]$$

$$\boxed{y = 1 - x}$$

$$y = 1 - 0$$

$$y = 1$$

$$(x-h)^2 + (y-k)^2 = r^2$$

h, k - centre of circle
 r → radius

$$(0, 1) \quad (1, 0) \quad r = (2, -1)$$

$$r = \sqrt{8} = \sqrt{2 \cdot 2 \cdot 2} = 2\sqrt{2} \approx 2.8$$

$$(x-2)^2 + (\dots)^2 = 8$$

$$(x-2)^2 + (1-x+1)^2 = 8$$

$$(x-2)^2 + (2-x)^2 = 8$$

$$(x^2 - 4x + 4) + (4 - 4x + x^2) = 8$$

$$x^2 - 4x + 4 + 4 - 4x + x^2 = 8$$

$$2x^2 - 8x + 8 = 8$$

$$2x^2 - 8x = 0$$

$$2x(x-4) = 0$$

$$2x = 0$$

$$x = 0$$

$$y = 1$$

$$x - 4 = 0$$

$$x_2 = 4$$

$$y_2 = 1 - 4$$

$$y_2 = -3$$

$$x_1 = 0$$

$$y_1 = 1 - 0$$

$$y_1 = 1$$

$$(0, 1)$$

$$x_2 = 4$$

$$y_2 = 1 - 4$$

$$y_2 = -3$$

$$(4, -3)$$

