a) Show that the point $(-2, 5)$ does **not** lie on the circle with equation $x^2 + y^2 = 21$.	a) Show that the point $(-2, 5)$ does **not** lie on the circle with equation $x^2 + y^2 = 21$.
b) Determine whether the point $(-2, 5)$ lies inside, outside or on the circle with equation $x^2 + y^2 = 30$.	b) Determine whether the point $(-2, 5)$ lies inside, outside or on the circle with equation $x^2 + y^2 = 30$.
c) Find the points of intersection between the line $x = 3$ and the circle $x^2 + y^2 = 73$.	c) Find the points of intersection between the line $x = 3$ and the circle $x^2 + y^2 = 73$.