1) Solve this Quadratic. Find the Vertex and the two solutions.

$$y = -x^2 + 4x + 21$$

Vertex = -b/2a =

two solutions:

2) Find the equation of the line that passes through (6,9) and (-3,0).

Slope:

Equation of the line:

$$C(x) = x + 3$$

R(x) = $-x^2 + 4x + 21$

$$C(x) = 3x + 8$$

R(x) = $-3x^2 + 12x + 8$

$$C(x) = 2x + 5$$

R(x) = $-x^2 + 9x - 2$

$$C(x) = 5x + 200$$

$$R(x) = -7x^2 + 100x$$

$$C(x) = 18x + 1500$$

R(x) = $-3x^2 + 160x$

