

4.6 #9) a)  $y = x^2 - 4x + 7$

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

i)  $y = (x^2 - 4x) + 7$

last  $b = -4$   
 $\frac{b}{2} = -2$   
 $(\frac{b}{2})^2 = 4$

square

$y = 1(x^2 - 4x + 4 - 4) + 7$   
 $y = (x^2 - 4x + 4) - 4 + 7$

$y = (x-2)^2 + 3$

$$\text{ii) } y = (x-2)^2 + 3$$

Graph:

$$a=1$$

up

Vertex  $(2, 3)$

