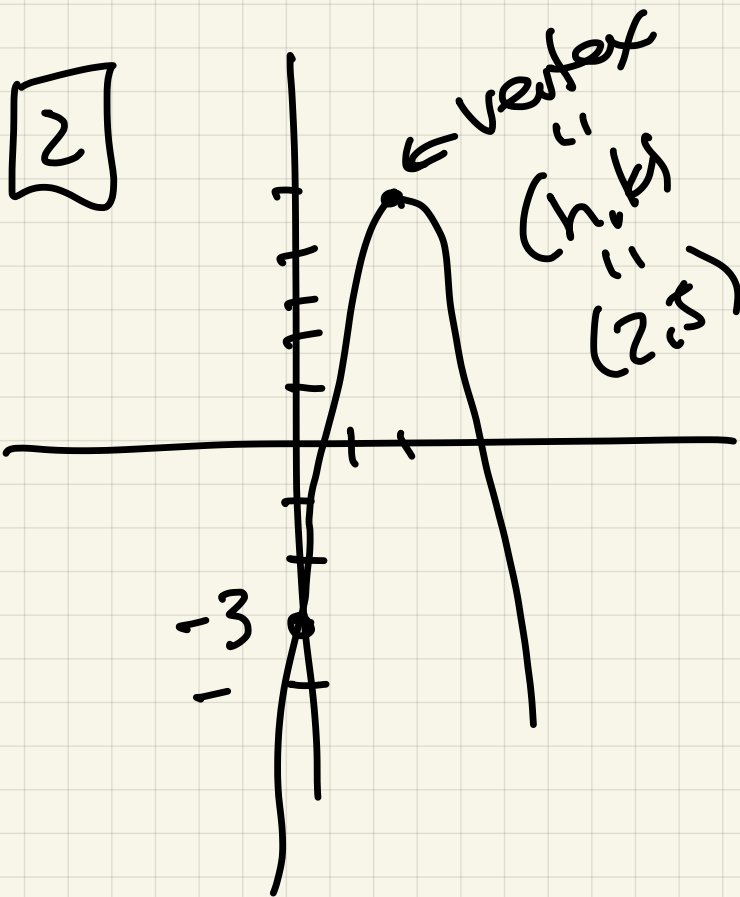
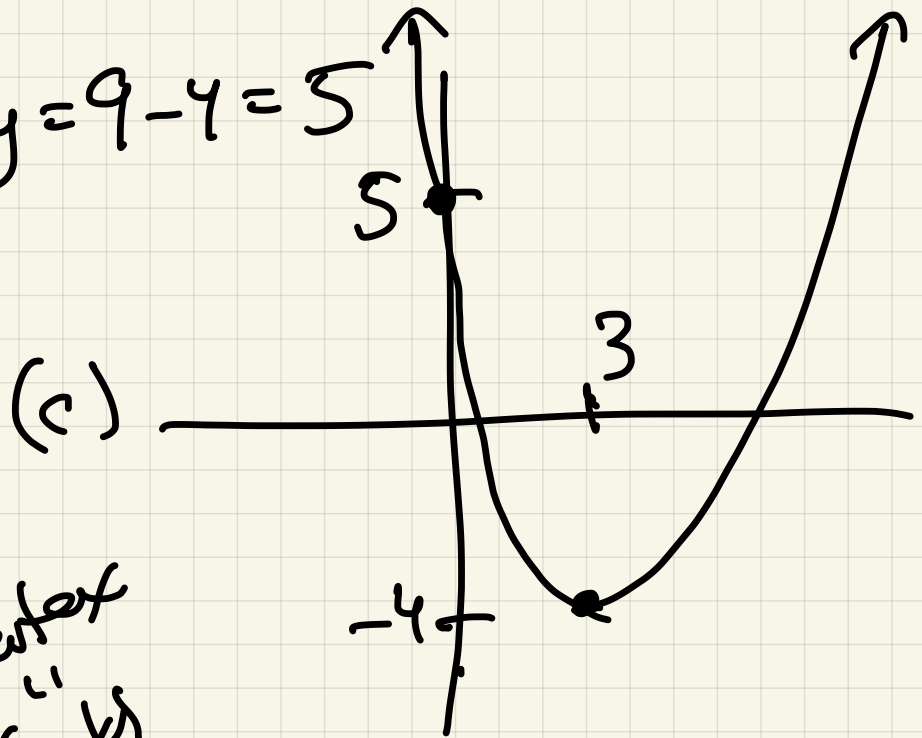


## Quiz 17

1  $y = x^2 - 6x + 5 = (x^2 - 6x + 9) + 5 - 9$

(a)  $= 1(x-3)^2 - 4 \leftarrow \text{standard form}$

(b)  $x=0 \Rightarrow y=9-4=5$



$$y = a(x-2)^2 + 5$$
$$-3 = a(0-2)^2 + 5 \Rightarrow$$
$$-8 = a \cdot 4 \Rightarrow a = -2$$

so  $y = -2(x-2)^2 + 5$