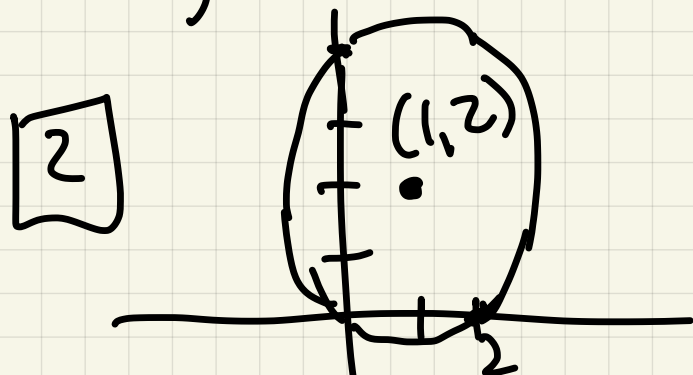


Quiz 6

① (a) No, for example $(0, -8)$ is on graph but $(0, 8)$ is not.

(b) Yes, b/c $2 \cdot 0 - 4^2 + 16 = -16 + 16 = 0 \checkmark$

(c) $x=0 \Rightarrow 2y+16=0 \Rightarrow 2y=-16 \Rightarrow y=-8$, so $(0, -8) = y\text{-int.}$



(a) Center is $(1, 2)$

(b) dist from $(1, 2)$ to $(2, 0)$ is

$\sqrt{5}$, so $r = \sqrt{5}$.

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