$z = x^2 - y^2$

CONTOUR MAP

$z = -5 \Rightarrow x^2 - y^2 = -5$

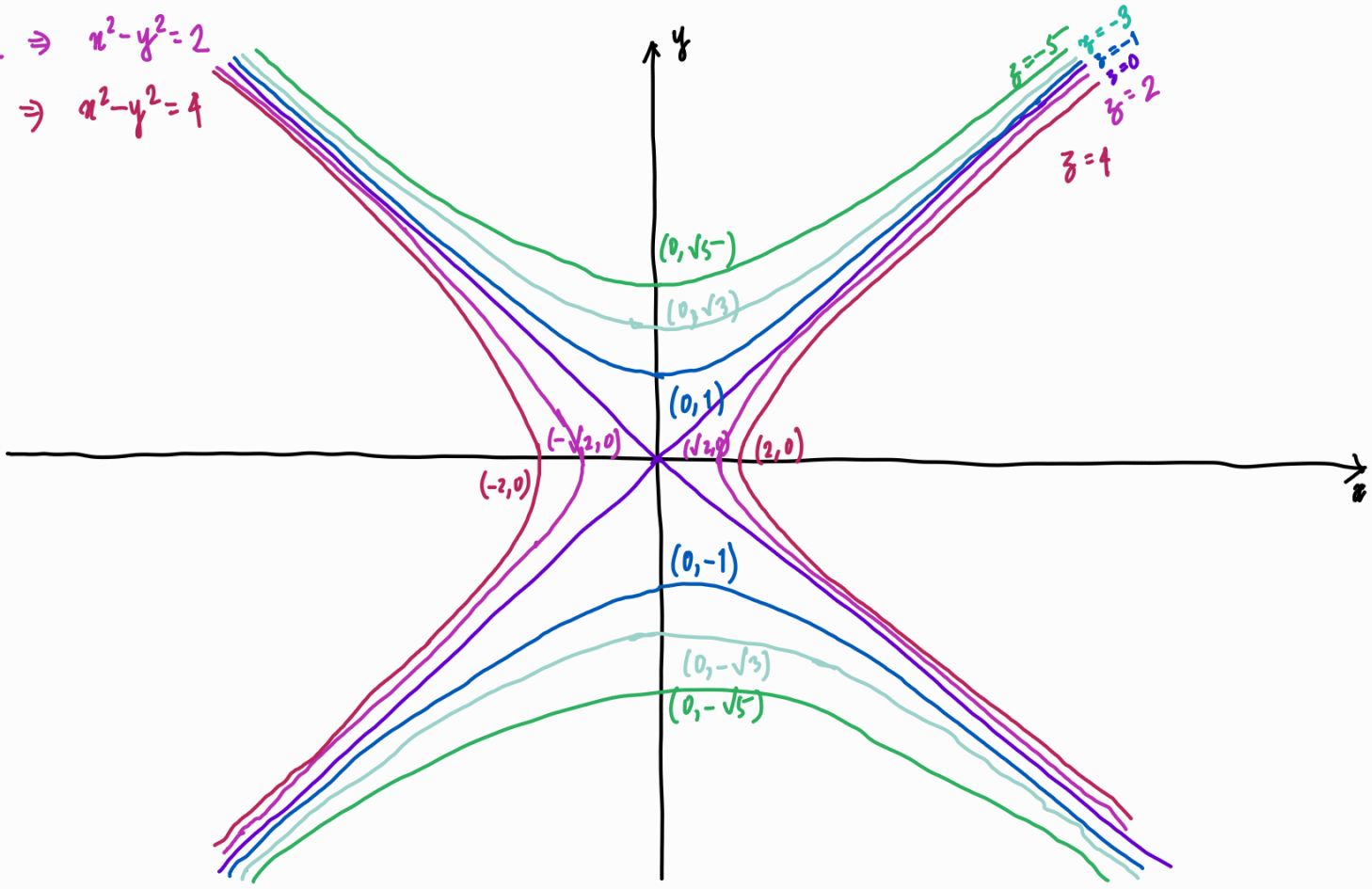
$z = -3 \Rightarrow x^2 - y^2 = -3$

$z = -1 \Rightarrow x^2 - y^2 = -1$

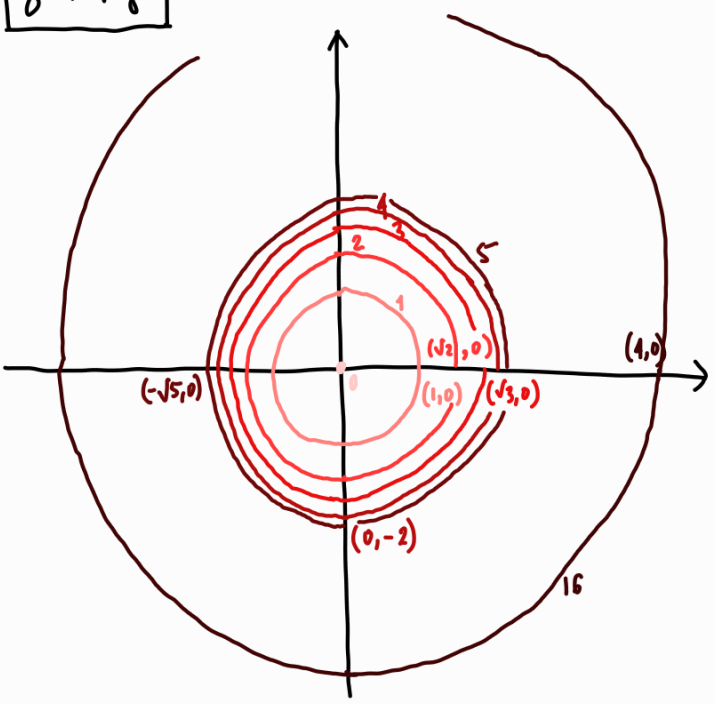
$z = 0 \Rightarrow x^2 - y^2 = 0 \Rightarrow x = \pm y$

$z = 2 \Rightarrow x^2 - y^2 = 2$

$z = 4 \Rightarrow x^2 - y^2 = 4$



$z = x^2 + y^2$



$z \geq 0$

$z = 0 \Rightarrow x^2 + y^2 = 0 \Rightarrow (x, y) = (0, 0)$

$z = 1 \Rightarrow x^2 + y^2 = 1$

$z = 2 \Rightarrow x^2 + y^2 = 2$

$z = 3 \Rightarrow x^2 + y^2 = 3$

$z = 4 \Rightarrow x^2 + y^2 = 4$

$z = 5 \Rightarrow x^2 + y^2 = 5$

$z = 16 \Rightarrow x^2 + y^2 = 16$