Name:

1. Draw the graph of the following equation, using a table:

$$y = \sqrt{16 - x^2}$$

domain: $16 - x^2 \geqslant 0$

$\Rightarrow -4 \leqslant x \leqslant 4$
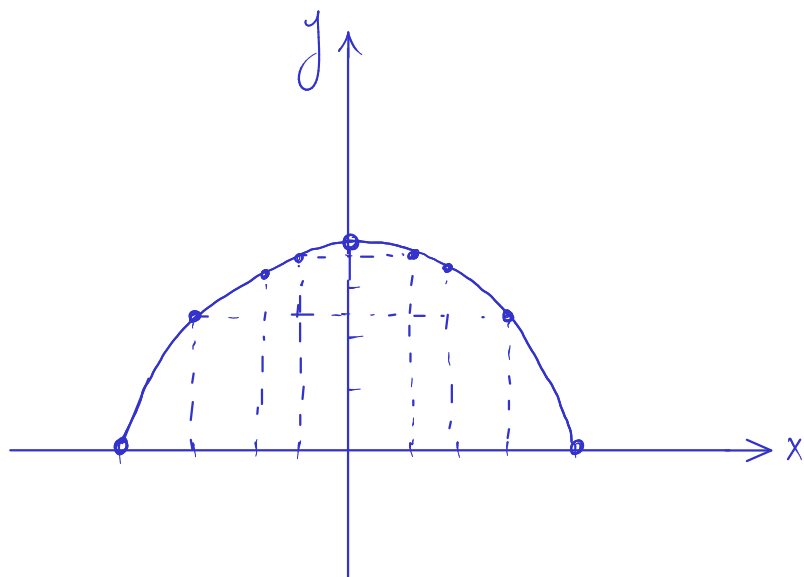
x	y
-4	0
-3	2.65
-2	3.46
-1	3.87
0	4
1	3.87
2	3.46
3	2.64
4	0

2. find the distance between the point $(5, 12)$ and the origin.

$$d\left((5,12),(0,0)\right) = \sqrt{(5-0)^2 + (12-0)^2} = \sqrt{169} = 13$$