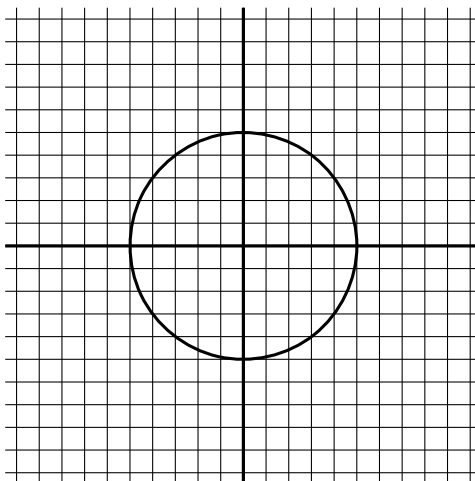


MAT 104 Quiz 7
Wednesday, September 22, 2004

1. Consider the following graph.



- (a) Does the graph represent a function?

No, it does not represent a function. It fails the vertical line test. In particular, the y -axis is a vertical line which crosses the graph at two points.

- (b) Find the domain of the relation.

$$[-5, 5]$$

- (c) Find the range of the relation.

$$[-5, 5]$$

2. For the function f given by $f(x) = x^2 + x - 3$, find $f(2)$.

$$\begin{aligned} f(2) &= 2^2 + 2 - 3 \\ &= 4 + 2 - 3 \\ &= 3 \end{aligned}$$