

Calculus 1:

Quiz 1: (Chapter 1)

- 1) Sketch the graph of the equation. Identify any intercepts and test for symmetry.

$$y(x) = 1 - x^2$$

- 2) Find an equation of the line that passes through the points  $p_1$  and  $p_2$ , and sketch the line.  $P_1=(1,3)$   $P_2=(4,3)$

- 3) Find the domain of these functions:

a)  $h(x) = \sqrt{x-1}$

b)  $g(x) = \frac{2}{1 - \cos(x)}$  (use inverse trig function)

4) Find the inverse of the function  $f(x)=2x-3$ .

5) Write the expression as the logarithm of a single function:  $3\ln x + 2\ln y - 4\ln z$

6) Solve for x:

a)  $\ln(x)=2$

b)  $e^x = 4$