No calculators, cell phones, computers, notes, etc.

Circle your answer. Make your work correct, complete and coherent.
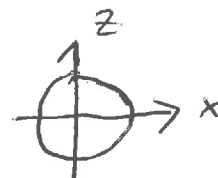
The quiz is worth 5 points. The solutions will be posted on my website later today.
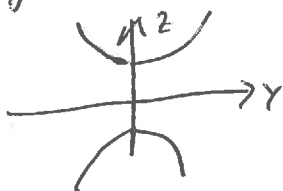
Quiz 9, February 19, 2020

Which of the following pictures is the graph of
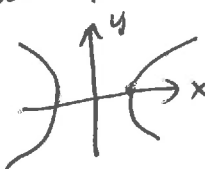
$$z^2 + x^2 - y^2 = 1.$$

When $y = 0$, the graph is a circle in the xz plane

When $x = 0$, the graph is a hyperbola in the yz plane. Notice that y can be 0 but z can not be 0

When $z = 0$, the graph is a hyperbola in the xy plane. Notice that $x = 1$ and $y = 0$ is on the graph but x can not be zero

. the graph is ②. A hyperboloid of one sheet.

The choices are on the next page.

a.

b.

c.

d.

k.

l.

e.

f.

g.

h.

i.

j.