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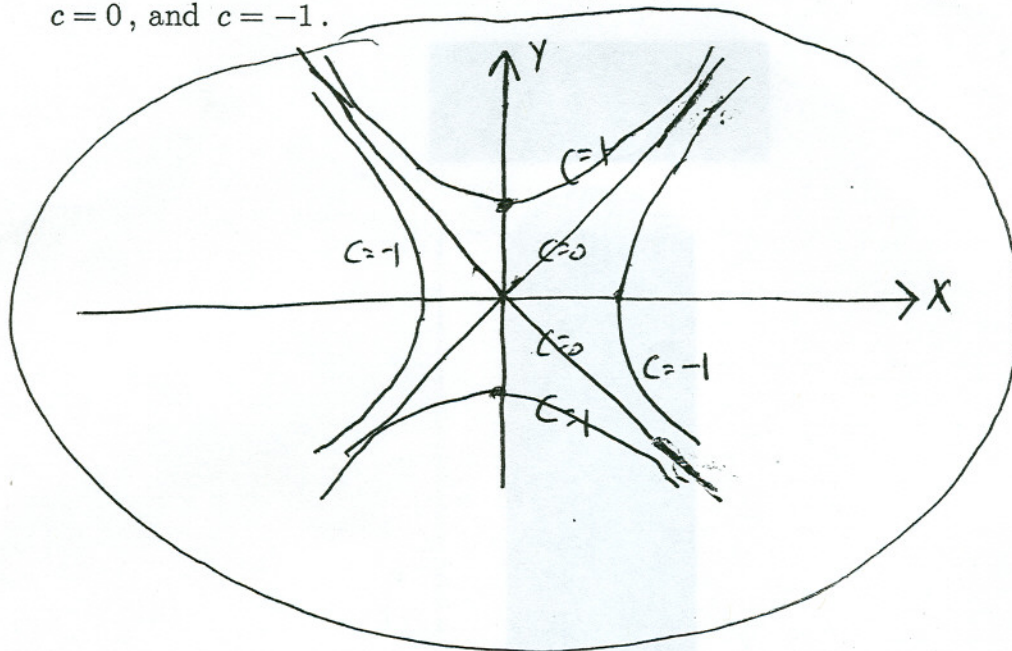
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PRINT Your Name: _____

There are 10 problems on 5 pages. Each problem is worth 10 points. SHOW your work. **CIRCLE** your answer.

NO CALCULATORS!

1. Graph and label the level sets of $f(x, y) = y^2 - x^2$ which correspond to $c = 1$, $c = 0$, and $c = -1$.



$$\begin{aligned} c=1 \text{ is} \\ -1 &= y^2 - x^2 \\ 1 &= x^2 - y^2 \end{aligned}$$

2. Graph $z = y^2 - x^2$ in 3-space.

