## Math 3330 - Quiz 6

Name:

- 1. Sketch the contour plot of  $z = y^2 x^2$  at several values.
- 2. Find the limits (or state they do not exist) for the following.
  - (a)  $\lim_{(x,y)\to(0,0)} \frac{x^2 xy + y^2}{x^2 + y^2}$ (b)  $\lim_{(x,y)\to(0,0)} \frac{1 e^{x^2 + y^2}}{x^2 + y^2}$
- 14.3: 5,7,15,53,59
- 14.4: 5,21