

## Quiz 7A

**Name:**

**UAlbany Email:**

Closed book/notes. No calculators allowed. Show all your work to receive full credit.

1. (4 Points) The graph of the function  $y = \log_2(x^2 - 9)$  has two vertical asymptotes. One is at  $x = \underline{\hspace{2cm}}$  and the other at  $x = \underline{\hspace{2cm}}$ .
2. (6 Points) Find a formula for the exponential function passing through the points  $\left(-3, \frac{2}{27}\right)$  and  $(3, 54)$ . Simplify your final answer. *Hint: To simplify your final answer use the fact that  $27 = 3^3$  and  $54 = 2 \cdot 3^3$ .*

Grade:        /10