

Math 108H (Quiz 6)  
Show all work (no calculator)

Name \_\_\_\_\_.

1. (20 points) Evaluate each of the following:

(a) Find  $\int (x^2 - 2\sqrt{x}) dx$

(b) Find  $\int (2 \sin(3x)) dx$

(c) Find  $\int \left(\frac{x^2-1}{x}\right) dx$

(d) Find  $\int (3 \csc(2x) \cot(2x)) dx$

(e) Find  $\int \left(\frac{x+e^{2x}}{x^2+e^{2x}}\right) dx$