

NAME: \_\_\_\_\_ Score \_\_\_\_\_/10

Please **print** your name**Circle T or F, whichever is correct.**

1. T F The functions  $\ln$  and  $\exp$  are inverses.
2. T F The functions  $\log$  and  $\exp_2$  are inverses.
3. T F Every rational function has a vertical asymptote.
4. T F Every rational function has a horizontal asymptote.
5. T F Every exponential function has  $(0, 1)$  as its y-intercept.
6. T F Every logarithmic function passes the horizontal line test.
7. T F Some polynomial functions have horizontal asymptotes.
8. T F Every polynomial function is a rational function.
9. T F Every exponential function is a rational function.
10. T F  $\exp(x) > 0$  for all real values of  $x$ .