

## Math 151, Quiz # 8, October 29, 2013

**1.** Let  $f(x) = x^4 - 32x$ . Find the maximum and minimum values attained by  $f(x)$  on the interval  $[-3, 3]$ .

**2.** Let  $g(x) = e^x + x^2 + 1$ . Use a linear approximation about  $x = 0$  to approximate the value of  $g(0.02)$ .