

**Perform a complete analysis on each function.**

1.  $a(x) = 13x^3 - 11x$

2.  $c(x) = -x^2 + 3$

3.  $f(x) = x^{1/3}$

4.  $d(x) = \sqrt{4x^3 + 3x}$

5.  $y(x) = -4x^3 + 2x$

6.  $p(x) = \frac{2x}{x+1}$