Calculus   Class Worksheet #4   Unit 2   _____

Find all stationary points for each function and use the second derivative (if possible) to classify each as a minimum, a maximum, or neither. If the second derivative can not be used, then use any method you choose.

1. $f(x) = x^4 - 4$

2. $f(x) = x^3 + 1$

3. $f(x) = -2x^2 + 7x - 1$

4. $f(x) = x^2 - x + 2$

6. $f(x) = \dfrac{4x^2 + 9}{x}$

5. $f(x) = 4x^3 - 15x^2 - 18x + 2$