Calculus Extra Credit

Given the function $f(x) = x^5 - 4x^3 + 8x^2 - 32$

1. Find the zeros (roots) of *f(x)*.

2. Describe the end behavior: $As\ x \to \infty,\ f(x) \to$ _____

$$As\ x \to -\infty, \qquad f(x) \to \_\_\_\_\_$$

3. Find the relative extrema

4. Graph *f(x)*