Questions

- 1. How many roots do the following equations have? a. $0=x^2$
 - b. $0=8x^4+5x^3+x^2-14$
 - c. $x^3-x=5x^5+x^2$
- 2. Use the Rule of Descartes to determine how many positive and negative roots each equation has.
 - a. $0=x^3+4x^2-5x-3$
 - b. $0=x^2+6x+2$
 - c. $0=x^6-5x^5+4x^4-3x^3+2x^2-x+6$
- 3. Sketch the graph of the following equation by first creating a table of values. a. y=1/2x-6

b. $y=x^2+3x-8$

c. $y=x^3-5x^2+7$

4. Find the roots or the x-intercepts of the following equations by graphing. a. $y=x^2-5x-24$

b. $y=x^3+8x^2+4x-48$