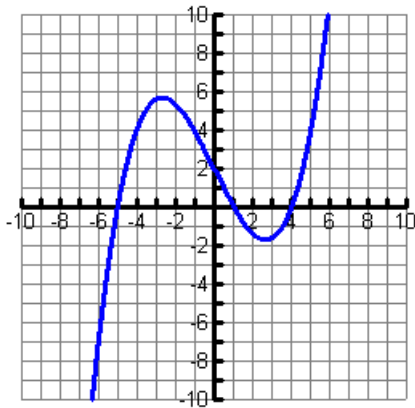


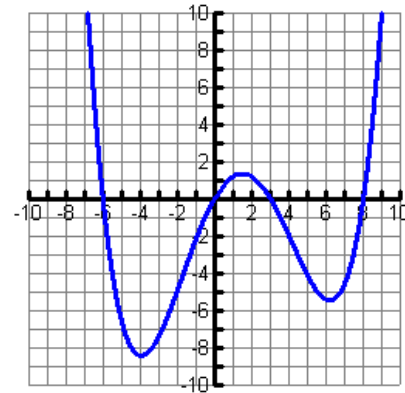
Use the graphs below to do the following:

- Name the possible degree of the polynomial
- Identify the number of real solutions
- List the real solutions
- Write a polynomial equation of least degree in standard form

1.



2.



Write a polynomial in standard form of least degree for each set of roots.

3. -1, 1, 5

4. 0, -3,  $-2i$ ,  $2i$

5. Sketch a fourth-degree equation for each situation.

a) no  $x$ -intercept

b) one  $x$ -intercept

c) two  $x$ -intercepts

d) three  $x$ -intercepts

e) four  $x$ -intercepts

f) five  $x$ -intercepts