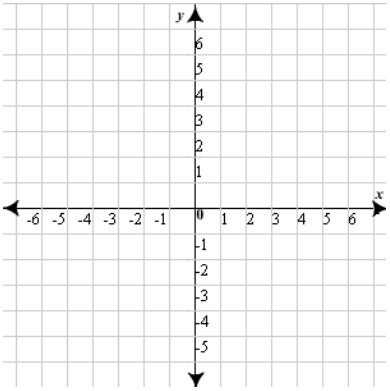
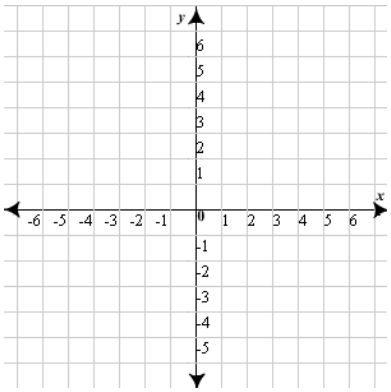
Graphing Polynomials – Day 2

Label each function by its degree and make a rough sketch.

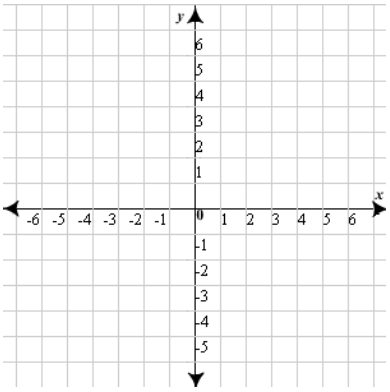
1. $f(x) = (x+3)^4$



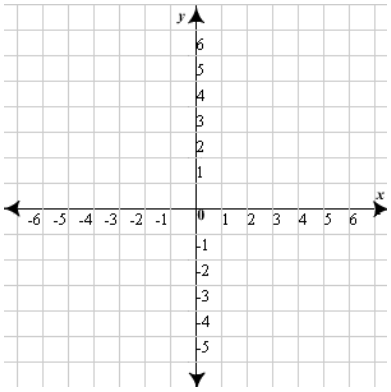
2. $f(x) = -2(x-2)^2(x+5)$



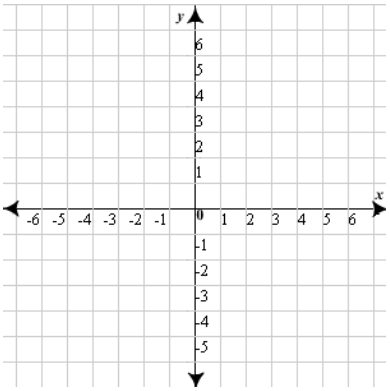
3. $f(x) = -(x-2)(x+4)^3(x+1)^2$



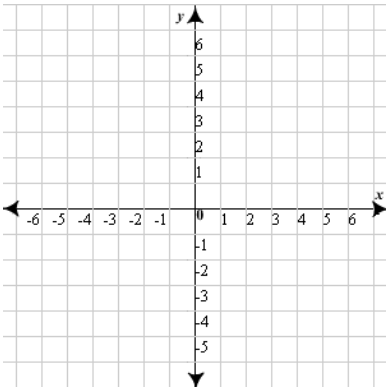
4. $f(x) = (x+3)^{102}(x-4)^{103}x^{104}$



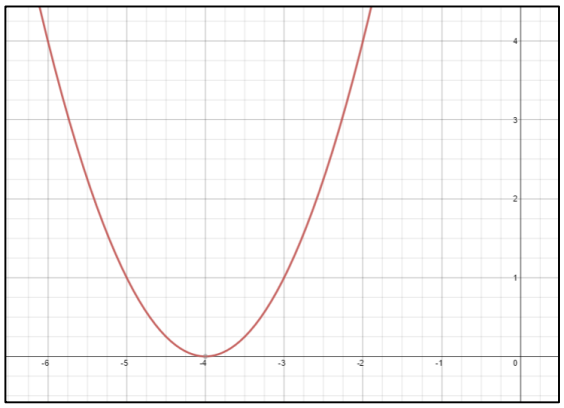
5. $f(x) = x^3 + 4x^2 + 4x$

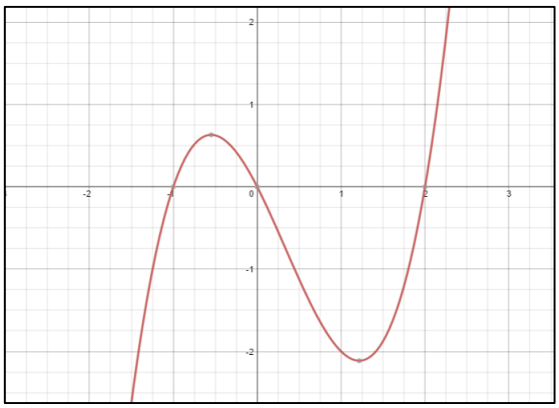


6. $f(x) = -x^5 - 3x^4 + x^3 + 3x^2$

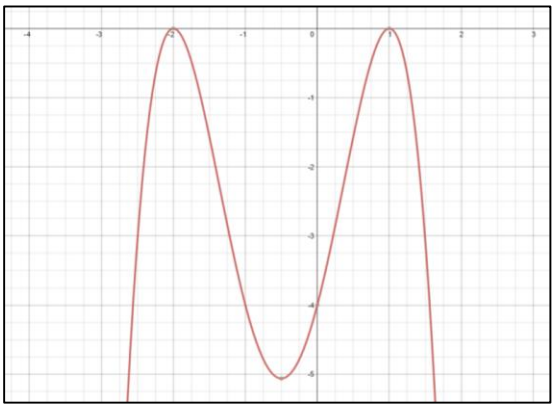


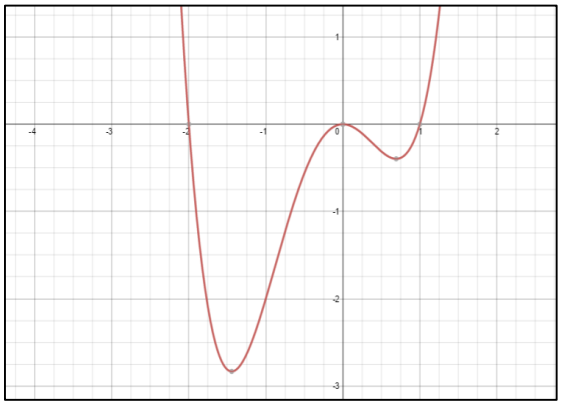
Determine which polynomials created the following graphs. You may use a graphing calculator to check your answers.

1. 

2. 

3. 

4. 

5. 

6.