

Math 1 — Worksheet 3

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Name: _____

For each of the following polynomials, complete the following steps:

- (i) Factor the polynomial
- (ii) Find the zeros of the polynomial
- (iii) Determine the long run behavior

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

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

3. $h(x) = -x^3 - 5x$

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

Using your work on the previous page, match the functions with A–D in the graph below.

1. _____ $f(x) = x^3 - 4x$
2. _____ $g(x) = -2x^4 - x^3 + 3x^2$
3. _____ $h(x) = -x^3 - 5x$
4. _____ $k(x) = 2x^4 + x^2 - 3$

