

**Graphing Polynomial Functions in Factored Form Without a Table**

Find all pertinent information for each function below (degree, end behavior, zeros, maximum number of turns, y-intercept). Then graph the function.

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

2.  $g(x) = \frac{1}{4}(x + 1)^2(x - 4)^2$

3.  $h(x) = \frac{1}{10}(x + 2)(x - 5)^2$

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