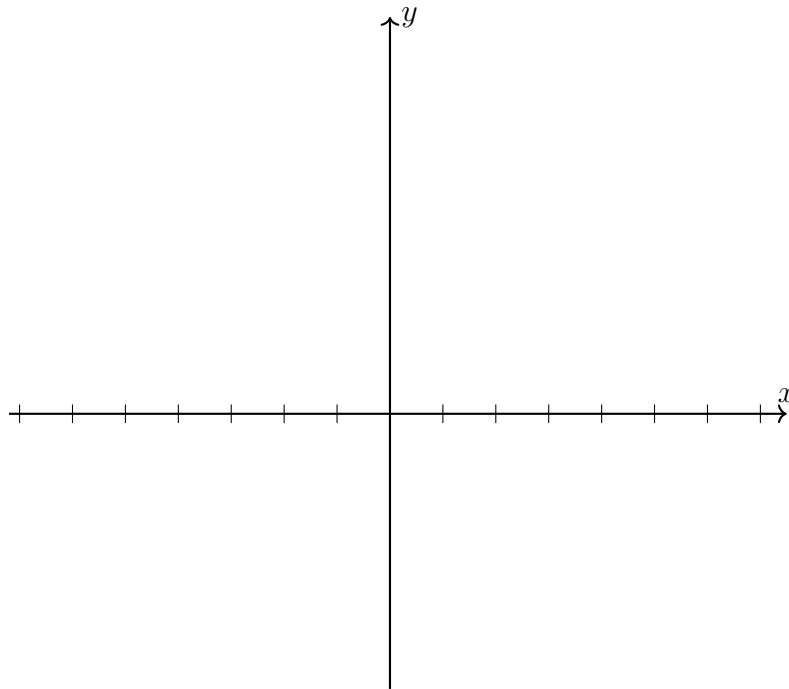


2.20 Do Now Quiz: Using the calculator with polynomial functions

A2-F.IF.7c Graph polynomials, identify zeros, end behavior

1. Let f be a polynomial function of x where $f(x) = x^3 + 4x^2 - 7x - 10$. If $x - 2$ is a factor of f , write an equation for f as a product of linear factors.

2. Let $g(x) = 2(x + 2)(x + 1)(x - 4)^2$ be a polynomial function.



- (a) Sketch a graph of the function.
- (b) Name all horizontal and vertical intercepts of the graph.
- (c) State the end behavior of g .