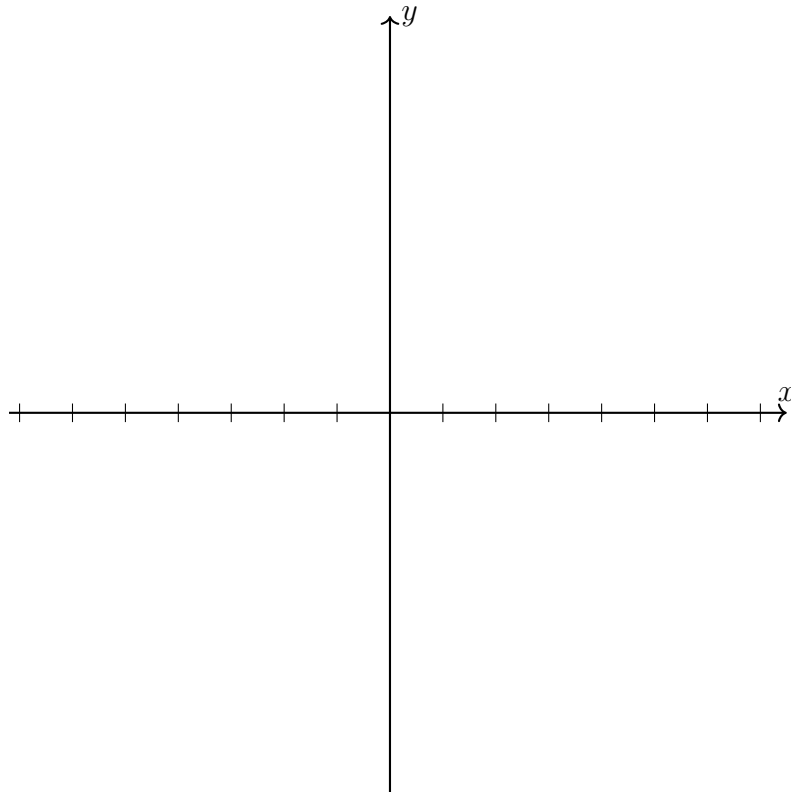


**2.20 Do Now Quiz: Using the calculator with polynomial functions**

**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  $g$ .