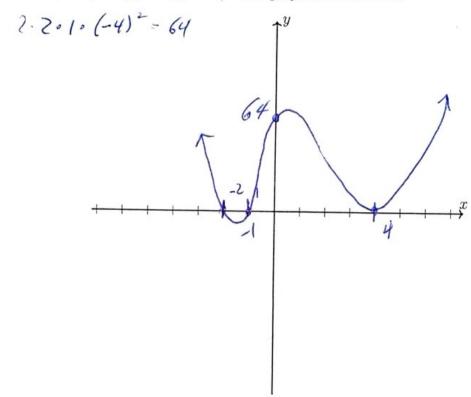
## 2.20 Do Now Quiz: Using the calculator with polynomial functions

## 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.

$$\chi \rightarrow + \infty$$
  $y \rightarrow + \infty$ 
 $\chi \rightarrow - \infty$   $y \rightarrow + \infty$