

Plotting Functions 1

Plot by hand:

For each function, plug in $x=-3,-2,-1,0,1,2,3$ and sketch the graph on graph paper, please **label the zeroes of the function**:

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

Plot using computer:

For each function, plot using geogebra or alpha.wolfram.com, and label the zeroes of the function:

5. $f(x) = x^2 + 5x + 6$
6. $f(x) = x^2 - 8x + 12$
7. $f(x) = 4x^2 - 12x + 5$
8. $f(x) = x^2 + 3x - 10$
9. $f(x) = x^2 - 3x - 10$
10. $f(x) = x^2 - x - 12$