

MATH 2B/5B Review: Graphing Functions

Facts to Know:

Graphs of Basic Functions:

Plotting Points:

Graph Transformations: If we have a graph of $f(x)$, obtain transformed graphs by

- $f(x) + c$:
- $f(x + c)$:
- $cf(x)$:
- $f(cx)$:

Inverse Functions:

Examples:

1. Graph the function $2x^2 - 1$.

2. Graph the function $\sin(\pi x)$.

3. Using the graph of $\tan(x)$, graph $\arctan(x) = \tan^{-1}(x)$.