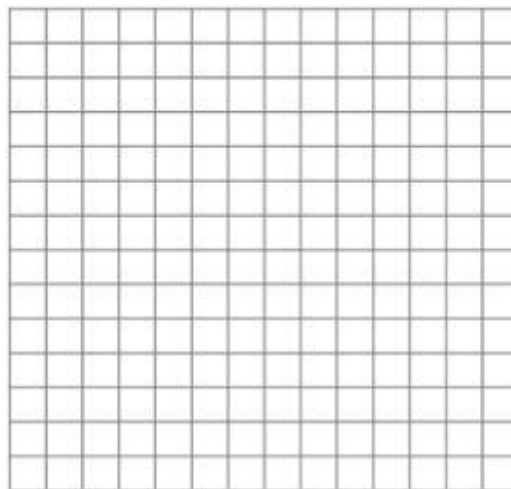


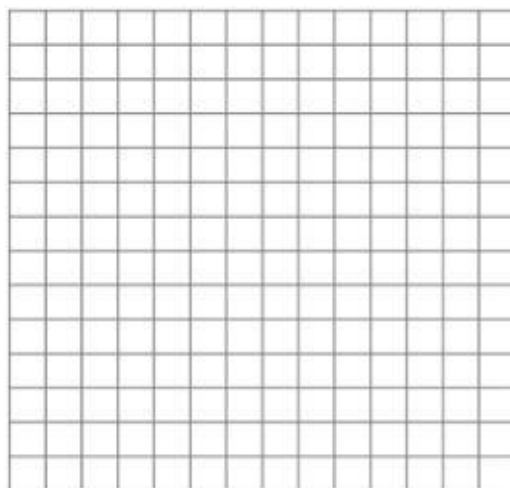
MaxMin1 with Drawing Function Practice

1. Draw a function on which possesses all of the following attributes.

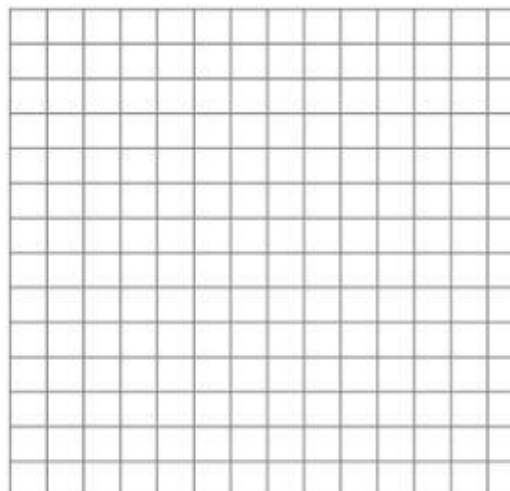
a) Abs. Max at $x = 3$, Abs. Min at $x = -2$, Rel. Min at $x = 4$, $f(x) = 1$, $f(x) = 2$



b) Abs. Min at $x = 1$, Rel. Max at $x = 5$, Rel. Max. at $x = 2$, Rel. Min. at $x = 4$, $f(x) = \infty$, $f(x) = 2$



c) Rel. Max. at $(0, 0)$, $f(x) = 1$, $f(x) = \infty$, $f(x) = -\infty$, EVEN symmetry



MaxMin1 with Drawing Function Practice

2. Find the absolute maximum and minimum values on the given interval.

a) $f(x) = x^4 - 2x^2 + 3, \quad [-2, 3]$

b) $f(x) = \frac{x}{x^2+1}, \quad [0, 2]$

c) $f(x) = (x^2 - 1)^3, \quad [-1, 2]$