



EXTREMA: MINIMUM & MAXIMUM VALUES

LESSON 3.1



PROBLEMS

Find the extreme values (absolute min and absolute max) for each of the functions below. Draw a graph to confirm.

(a) $y = 1 + 3x^4 - 4x^3$ on $[-1, 2]$

(d) $z(x) = x + 1/x$ on $[1/5, 4]$

(b) $g(x) = x^{4/5}$ on $[-32, 32]$

(e) $y = \frac{\cos x}{2 + \sin x}$ on $[0, 2\pi]$

(c) $g(x) = x^{2/3}(2 - x)$ on $[-1, 2]$