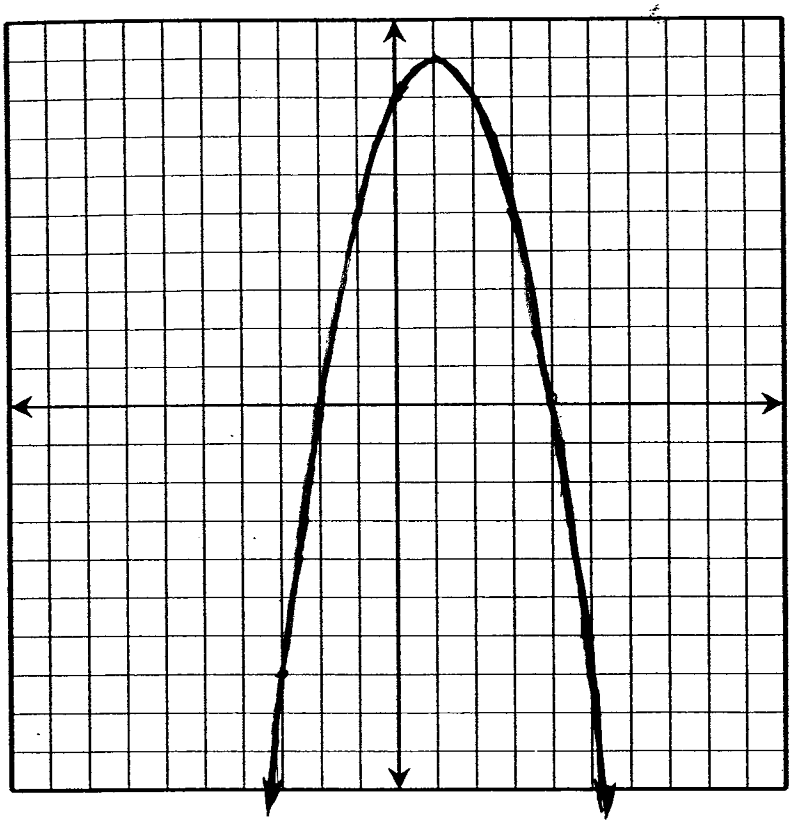


1) $F(x) = -x^2 + 2x + 8$

Domain : $\mathbb{R}$

Range : $(-\infty, 9]$

Zeros $\{-2, 4\}$

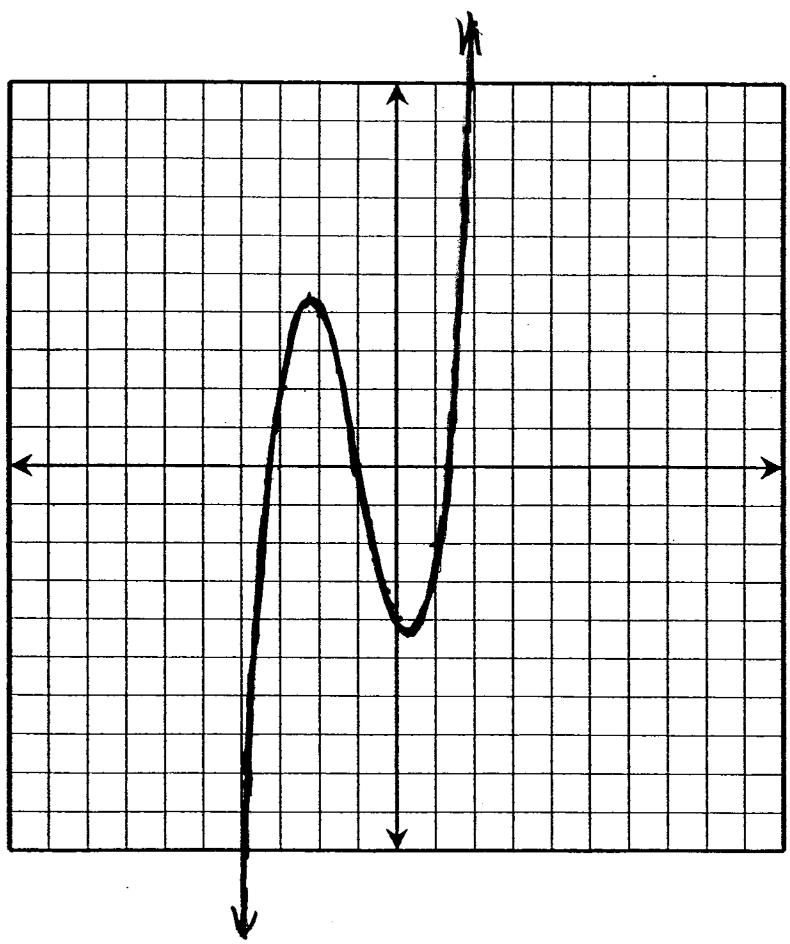
Y-Int : $(0, 8)$

Max's : $(1, 9)$

Min's : none

Increasing : $(-\infty, 1)$

Decreasing : $(1, \infty)$



2) $F(x) = x^3 + 3x^2 - 2x - 4$

Domain: $\mathbb{R}$

Range: $\mathbb{R}$

Zeros: $\{-3.24, -1, 1.24\}$

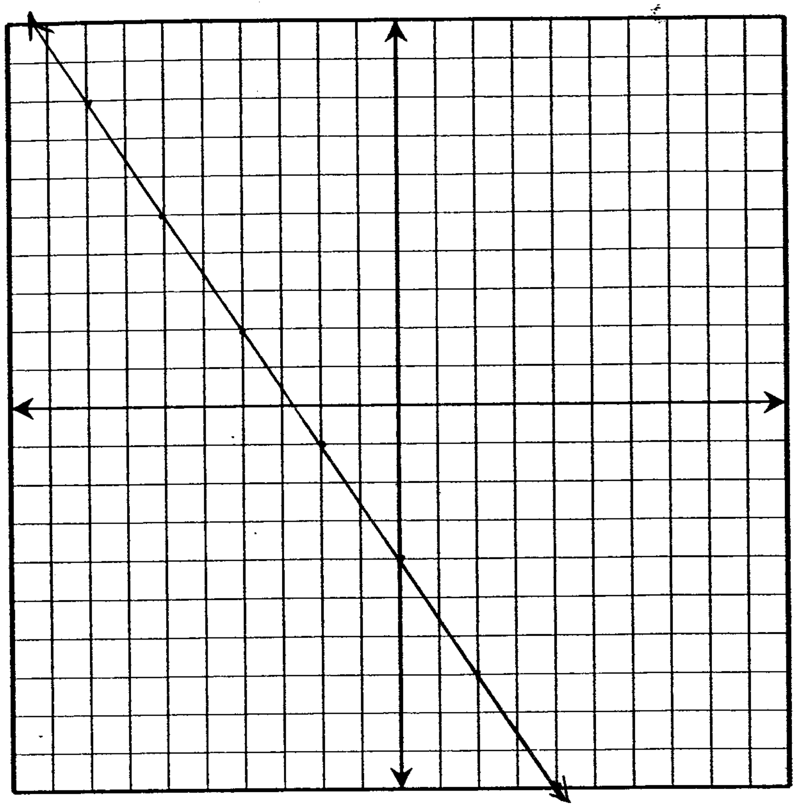
Y-Int: $(0, -4)$

Max's: $(-2.29, 4.30)$

Min's: $(.29, -4.30)$

Increasing: $(-\infty, -2.29)$ $(.29, \infty)$

Decreasing: $(-2.29, .29)$



3) $F(x) = -\frac{3}{2}x - 4$

Domain $\mathbb{R}$

Range $\mathbb{R}$

Zeros $\{-\frac{8}{3}\}$

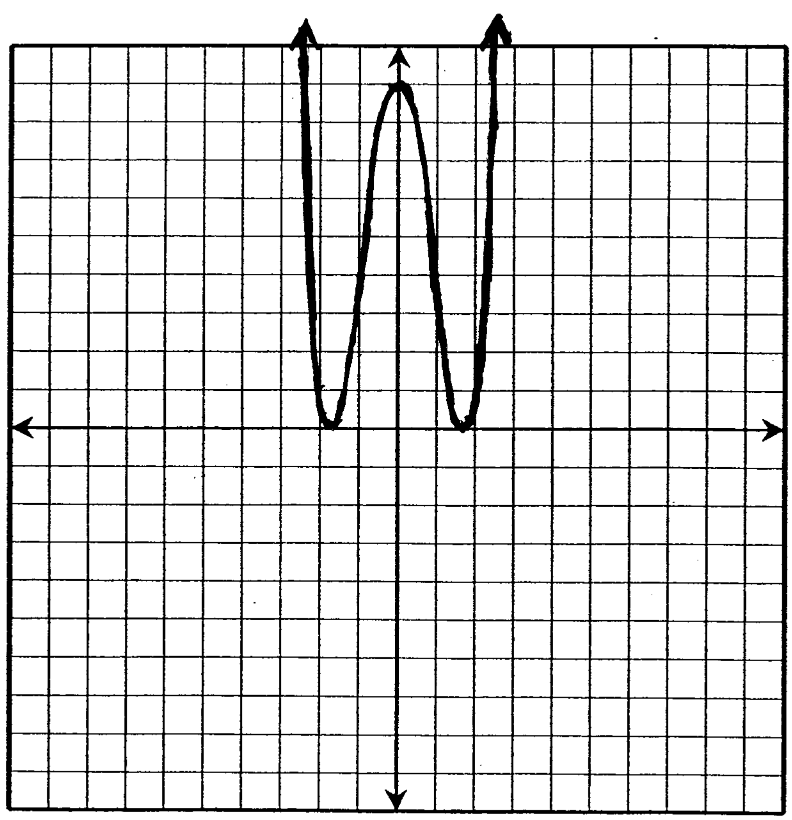
Y-Ints $(0,-4)$

Max's none

Min's none

Increasing never

Decreasing $(-\infty, \infty)$



4) $F(x) = x^4 - 6x^2 + 9$

Domain : $\mathbb{R}$

Range : $[0,\infty)$

Zero's : $\{-1.73, 1.73\}$

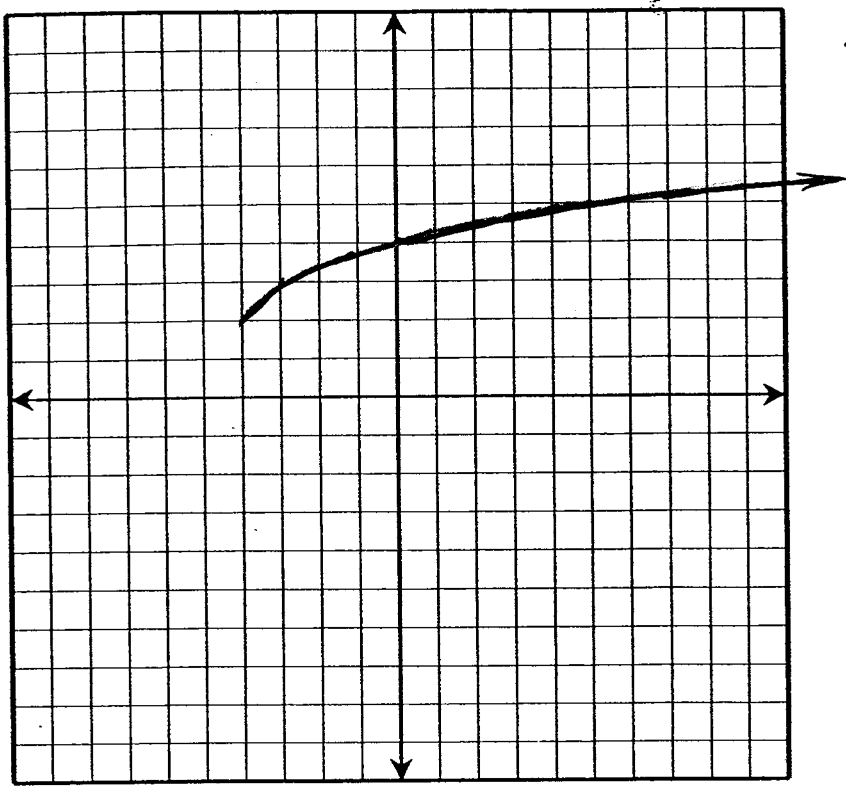
Y-Ints : $(0,9)$

Max's : $(0,9)$

Min's : $(-1.73,0)(1.73,0)$

Increasing : $(-1.73,0)(1.73,\infty)$

Decreasing : $(-\infty,-1.73)(0,1.73)$



5) $F(x) = \sqrt{x+4} + 2$

Domain: $[-4, \infty)$

Range: $[2, \infty)$

Zeros: $\emptyset$

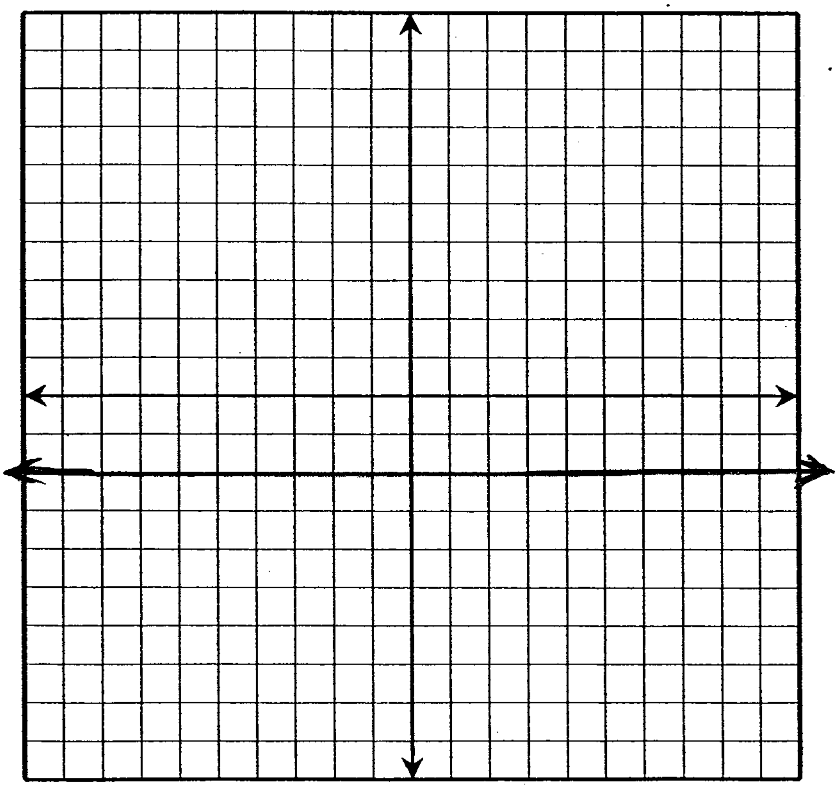
Y-Ints: $(0,4)$

Max's: none

Min's: $(-4,2)$

Increasing: $(-4, \infty)$

Decreasing: never



6) $F(x) = -2$

Domain: $\mathbb{R}$

Range: $\{-2\}$

Zeros: $\emptyset$

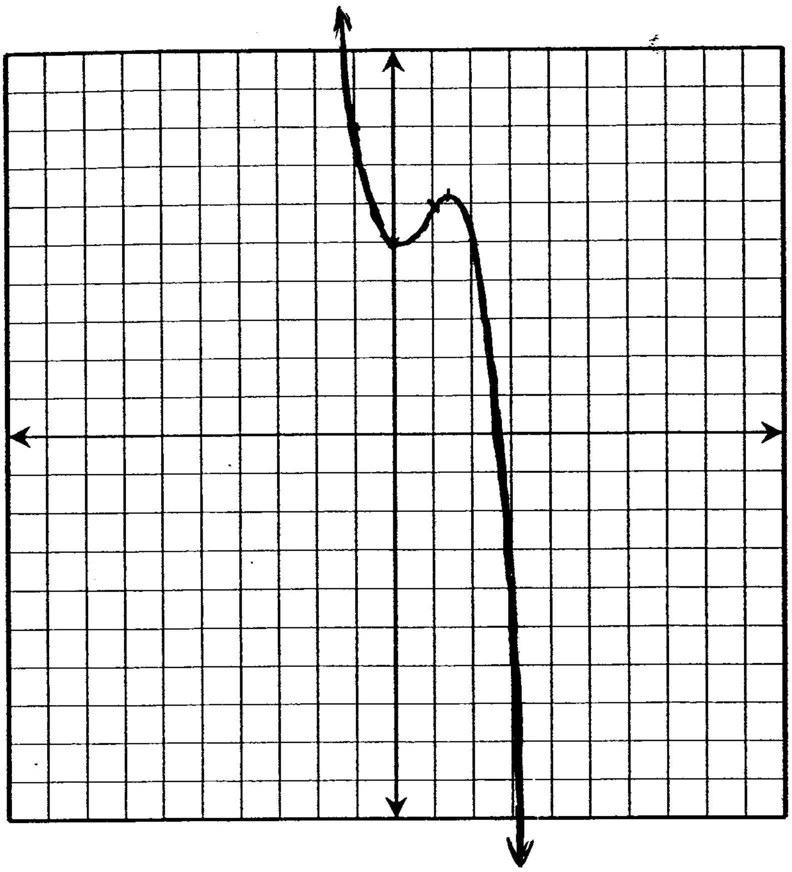
Y-Ints: $(0,-2)$

Max's: None

Min's: None

Increasing: Never

Decreasing: Never



7) $F(x) = -x^3 + 2x^2 + 5$

Domain: $\mathbb{R}$

Range: $\mathbb{R}$

Zeros: $\{2.69\}$

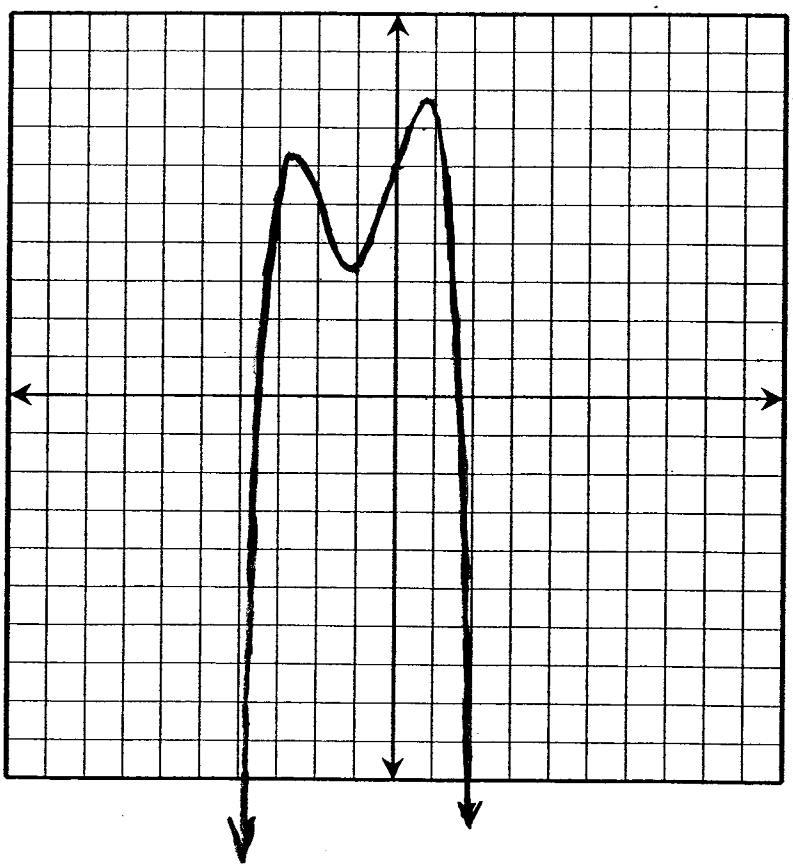
Y-Ints: $(0,5)$

Max's: $(1.33, 6.19)$

Min's: $(0,5)$

Increasing: $(0, 1.33)$

Decreasing: $(-\infty, 0)$ $(1.33, \infty)$



8) $F(x) = -\frac{1}{2}x^4 - 2x^3 - \frac{1}{4}x^2 + 4x + 6$

Domain: $\mathbb{R}$

Range: $(-\infty, 7.87]$

Zeros: $\{-3.48, 1.61\}$

Y-Ints: 6

Max's: $(-2.61, 6.21)$ $(.70, 7.87)$

Min's: $(-1.09, 3.23)$

Increasing: $(\infty, -2.61)$ $(-1.09, .70)$

Decreasing: $(-2.61, -1.09)$ $(.70, \infty)$