

# PRECALCULUS

**Thursday, Aug. 28**

Graph Transformations Handout  
15-26, 49, 50

Families of Graphs Handout

**Tuesday, Sept. 2**

Symmetry & Even/Odd Functions Handout

Piecewise Functions Handout

**Thursday, Sept. 4**

Sec. 1.4 pp. 40-42

Identify increasing & decreasing intervals  
and relative & absolute extrema

5, 6, 17, and a)  $f(x) = \frac{5x^2 + 8x - 3}{3x^2 + 2}$  (calculator)

Quadratics & Inverses: See additional problems on back

**Monday, Sept. 8**

Graph the following inequalities:

By hand: (a)  $y > x + 2$  (b)  $|x + 2| \geq 5 + y$  (c)  $y < \sqrt[3]{x + 2} + 3$

By calculator: (d)  $y < x^3 + 5x^2 - 18x - 72$  (e)  $y > |x| + 2$

Identify the (a) vertical asymptotes, (b) horizontal asymptotes (c) slant (oblique) asymptotes and (d) holes.

Sec. 2.5 p. 138 20, 22, 25, 27, a-d at right

$$(a) f(x) = \frac{x^2 + x - 6}{x - 4} \quad (b) f(x) = \frac{x + 3}{x^2 + 9} \quad (c) f(x) = \frac{x^2 - x - 2}{x - 2} \quad (d) f(x) = \frac{2x^3 + 4x^2 - 9}{3 - x^2}$$

**Wednesday, Sept. 10**

Review Graphing

*Journal  
Due*

**Friday, Sept. 12**

**GRAPHING  
TEST**

*Math Matters Due Next Class!*