

Assignment #8-1

Secondary 3 Honors

PreCalculus Book: Pg. 414 1, 7, 10, 13, 14, 17, 25c, 27, 30, 43

Additional Problems:

1. Evaluate the arc functions. Answer in radians. No Calculator.

a. $\arcsin(1)$ b. $\arctan(-1)$ c. $\arccos\left(-\frac{\sqrt{3}}{2}\right)$

d. $\arccos(-1)$ e. $\arcsin(0)$ f. $\arctan\left(\frac{\sqrt{3}}{3}\right)$

2. Graph the rational function without a calculator. Show all asymptotes, holes and intercepts.

$$y = \frac{x^2 - 9}{(x+3)(x-1)}$$

3. Factor the following:

a. $2x^2 - 9x - 5$

b. $x^3 - 4x^2 + 2x - 8$

c. $4x^2 - 1$