Algebra 2 Bellwork Thursday, January 9, 2014

1. Find all points of discontinuity and state if they are holes or vertical asymptotes.

$$\frac{x^2-4}{2x^3-6x^2-20x}$$

2. Find the equation of the Horizontal Asymptote, if any.

a. $y = \dfrac{6x^3 - x^2 + 9}{2x^2 - 12}$

b. $y = \dfrac{7x^2 + 10x - 4}{x^2 + 5x + 2}$

c. $y = \dfrac{8x + 15}{2x^2 - 5}$

3. Simplify. State restrictions on the variable.

$$\frac{x^2+x-12}{4x^4-36x^2} \div \frac{x^2+10x+24}{6x^2+18x}$$