

AP Calculus Review Worksheet

This packet is a review of the common algorithms for AP Calculus used to date on the first day back to school. It is to be done neatly and on a separate sheet of paper. Have a great summer!

I. Simplifying Rational Expressions

Simplify. (Show your work!)

1. $\frac{x^2-4}{x^2-2x-8}$

2. $\frac{x^2-9}{x-2}$

3. $\frac{2x+3}{x^2-25}$

4. $\frac{x^2+4x+3}{x^2+25}$

II. Trigonometric Identities

1. Pythagorean Identities _____

2. cofactor _____

3. cofactor _____

III. Operations with Rational Expressions

1. $\frac{1}{x+2} - \frac{1}{x}$

2. $\frac{1}{\frac{1}{x} + \frac{1}{y}}$