AP Calculus Review Worksheet

This packet is a review of the entering objectives for AP Calculus and is due 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. $\dfrac{x-4}{x^2-3x-4}$

2. $\dfrac{x^3-8}{x-2}$

3. $\dfrac{5-x}{x^2-25}$

4. $\dfrac{x^2-4x-32}{x^2-16}$

II.   Trigonometric Identities

1.   Pythagorean Identities   _____
                                _____
                                _____

2.   cos2x=_____
             _____
             _____

3.   sin2x=_____

III. Operations with Rational Expressions

1. $\dfrac{\dfrac{1}{x+h}-\dfrac{1}{x}}{}$

2. $\dfrac{\dfrac{2}{x^2}}{\dfrac{10}{x^5}}$