C12   **Midterm Checklist**

I can ...	Example	I got this ☺	I need to work on this!!!
Classify discontinuities as removable and non-removable.			
Determine if a discontinuity is point, jump, infinite, of oscillating.			
Graph a piece-wise defined function.			
Create a continuous extension of a function.			
Determine if a given function is odd/even/neither.			
Graph (without technology) all trig functions – basic, reciprocals and inverses.			
Determine intervals where a function is decreasing, monotonic, and increasing.			
Determine if a function is a continuous function or a discontinuous function.			
Determine if a function is continuous at a point. (3 way test)			

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Determine if a function is continuous on an interval.			
Determine an equation of a line given two points on a line.			
Convert slope-point to slope-intercept and to general form of an equation.			
Factor polynomials using a variety of methods.			
State the domain and range of every function graphed/discussed in class, including the inverse trig, reciprocal trig, ceiling and floor, square root of a function, semi-circles, absolute values, ...			
Graph a variety of functions using transformations or a mapping notation.			
Graph a ceiling, floor, sin(x)/x, absolute value, reciprocal, square-root of a function.			
Apply the Sandwich theorem.			
Evaluate limits of constant functions.			

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Evaluate limits by substitution.			
Evaluate limits by prior factoring and simplifying.			
Apply the end-behaviour model.			
Evaluate limits when x approaches a vertical asymptote.			
Evaluate limits that require multiplication by a conjugate.			
Evaluate limits of trigonometric functions, including the application of transformations and sin(x)/x.			
Justify why a limit does not exist.			
Find the average rate of change/slope of a secant line between two points/or two values of an input/ or given an interval.			
Write the equation of a secant line given two points or an interval.			

I can …	Example	I got this ☺	I need to work on this!!!
Find the instantaneous rate of change/slope of a tangent line given a point or the input value.			
Write the equation of a tangent line given a point or an input value.			
Determine an equation of a normal line using the knowledge of the instantaneous rate of change.			