Pre-Calc Trig Final Review

**Chapter 1 Functions and Their Graphs**

Level 2

Find Domain and Range (2 problems)  
Given f(x) and g(x) Evaluate (4 problems)

Level 3

Evaluate composition function from table (1 problem)  
Evaluate composition problem given functions (1 problem)  
Find inverse (1 problem)

Level 4

Write, solve, and interpret an equation (1 problem) **Chapter 2 Polynomials and Rational Functions**

Level 2

Find vertex and x-intercepts (1 problem)  
Solve the following quadratics (3 problems)  
Simplify negative radical (1 problem)  
Identify a Horizontal Asymptote (1 problem)

Level 3

Given a factor of a polynomial find the other zeros (1 problem)  
Describe end behavior (1 problem)  
Find limit (1 problem)

Level 4

Use limit to find slope of tangent (1 problem)

**Chapter 3 Exponential and Logarithmic Functions**

Level 2

Rewrite log and exponential form (2 problems)  
Evaluate logs (2 problems)

Level 3

Solve exponential and log functions (2 problems)

Level 4

Solve a compound continuously story problem (1 problem) **Chapter 4 (Section 1) Radians and Degrees Measure**

Level 2

Convert degrees to radians and radians to degrees (2 problems)  
Identify coterminal angles (2 problems)  
Find intercepted arc given a central angle (1 problem)

Level 3

Find area of a circular region given a central angle (1 problem)  
Identify quadrant of an angle greater than 2 (1 problem)

Level 4

Solve the area of a windshield story problem (1 problem)

**Chapter 4 Trigonometry**

Level 2

Identify 6 trig functions (2 problems)  
Evaluate angle greater than 2 and # of rotations (2 problems)

Level 3

Evaluate trig functions given cot or tan and sin or cos (1 problem)  
Given length of a ladder and angle identify required distance (1 problem)

Level 4

Standing between 2 building find their heights (1 problem)