These are the sections and topics from Stewart that are could be on the final.

Chapter 1: Vectors Sections 1.1, 1.2, and 1.3
- vector representation
- vector addition
- magnitude
- scalar multiplication
- parallel and perpendicular vectors
- unit vector
- dot product
- orthogonal vectors
- scalar projections
- vector projection
- vector equation of a line
- word problems involving vectors
- parametric equations

Chapter 2: Sections 2.1, 2.2, 2.3, 2.5, 2.6, 2.7
- limits from the left
- limits from the right
- limits from both directions
- using graphs to compute limits
- vertical asymptotes
- horizontal asymptotes
- continuity
- horizontal asymptotes
- for section 2.7 you should know the concepts. Use derivative rules to actually get the slope of the tangent line.

Chapter 3: Sections 3.1–3.12
- derivative rules: product, quotient, ...
- equation of the tangent line
- applications of derivatives
- trig derivatives
- trig limits
- chain rule
- implicit derivatives
- vector derivatives
- higher derivatives, i.e. 2nd, 3rd, 4th, ...

Chapter 4: Sections 4.1-4.6, 4.8
- exponential functions
- one to one functions
- inverse functions
- derivative of inverse functions
- logarithmic functions
- log rules
- derivatives of exponential and logarithmic functions
- logarithmic differentiation
- exponential growth and decay: you don’t have to worry about Newton’s Law of Cooling or salt water mixture problems
- inverse trig functions: derivative, domain, and range. You are only responsible for inverse sine, inverse cosine, and inverse tangent
- indeterminate limits

Chapter 5: Sections 5.1, 5.2, 5.3, 5.5, 5.7
- increasing/ decreasing
- concave up and concave down
- local maximum and local minimum
- absolute maximum and absolute minimum
- inflection points
- sketch a graph using the above information
- applied max/min problems
- anti derivatives

Chapter 6: Sections 6.1, 6.2, 6.3, 6.4, 6.5
- Riemann sums, left endpoint, right endpoint, midpoint
- definite integral
- properties of the integral
- The fundamental theorem of calculus (both parts)
- substitution

Any additional topic discussed in class.