## Calculus Early Transcendentals by Soo Tan

1.1: Intuitive Introduction to Limits
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1.2: Techniques for Finding Limits
$23,24,25,26,27,28,31,32,33,34,35,36,37,38,48,49,55,56,60,65,68,70$, $75,77,86,93,99,100,101$
1.4: Continuous Functions
$3,4,8,10,15,16,23,27,29,34,35,41,42,49,50,54,56,59,63,96$
1.5: Tangent Lines \& Rates of Change
$1,5,6,9,14,18,20,22,29,41-44$
2.1: The Derivative
$4,6,9,13,17,20,25,26,27,28,29,30,33,34,35,39,44,45,46,50,51,57,60$
2.2: Basic Rules of Differentiation
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2.3: The Product and Quotient Rules
$1,4,8,9,14,18,23,24,28,32,33,37,45,48,50,57,61,63,69$
2.4: The Role of the Derivative in the Real World
$3,7,12,16,17,22,26,33,34$
2.5: Derivatives of Trigonometric Functions
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2.6: The Chain Rule
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2.7: Implicit Differentiation
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2.8: Derivatives of Logarithmic Functions
$6,7,13,18,26,31,33,34,40,43,48,54$
2.9: Related Rates
$3,6,8,9,14,16,18,24,25,26,28,29$
2.10: Differentials and Linear Approximation
$2,3,8,10,13,19,22,25,27,30,33,42,45$
3.1: Extrema of Functions
$1,2,4,13,16,17,21,23,26,30,37,39,42,48,51,52,59,66,67,70,79$
3.2: The Mean Value Theorem:
$4,8,11,12,16,18,20,21,24,26,27,36,50,51$
3.3: Increasing \& Decreasing Functions \& the First Derivative Test
$3,4,6,7,8,9,14,15,17,22,27,32,35,42,43,47,56,58,59,63,75$
3.4: Concavity and Inflection Points
$2,4,7,8,9,10,13,22,27,38,42,52,53,56,61,64,66,75$
3.5: Limits Involving Infinity; Asymptotes
$2,11,14,21,23,24,30,35,39,51,54,56,57,60,62,68,89$

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3.6: Curve Sketching
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3.7: Optimization Problems
$3,4,8,13,15,21,28,33,34,46,57,67$
3.8: Indeterminate Forms and L'Hôpital's Rule
$2,3,5,6,10,14,15,24,31,32,38,39,49,50,51,57,58$
4.1: Indefinite Integrals
$7,9,14,19,21,24,29,40,41,46,48,54,58,65,67,68,70,71,75$
4.2: Integration by Substitution
$3,4,6,11,13,17,18,19,24,29,33,36,41,47,52,65,67,76,77,86,87$
4.3: Area
$2,8,15,20,22,25,29,39,42,50,52,59$
4.4: The Definite Integral
$1,4,8,9,13,16,18,20,24,27,31,32,63,64,65,66,67,70$
4.5: The Fundamental Theorem of Calculus
$1,3,7,9,14,18,19,21,22,24,31,32,34,35,43,46,51,54,57,58,60,62,69$,
$76,79,85,93,97,99$
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5.1. Areas between Curves
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## Optional

1.3: A Precise Definition of Limit

Concept Questions 1, 2, 3, 4
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