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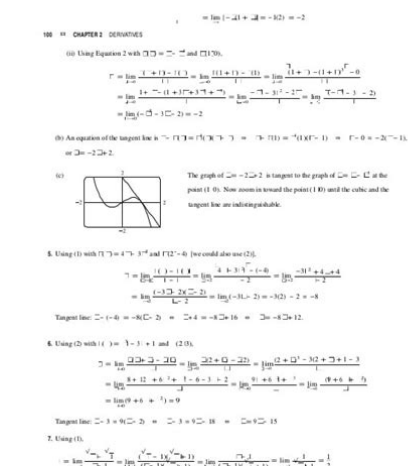
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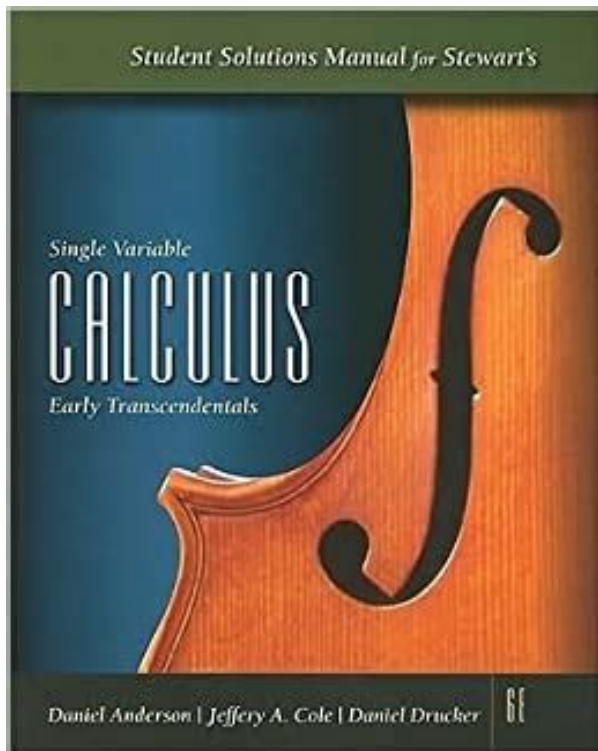
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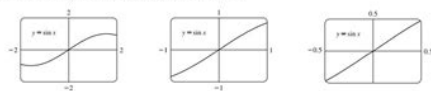
## 2 □ DERIVATIVES

## 2.1 Derivatives and Rates of Change

1. (a) This is just the slope of the line through two points:  $\frac{\Delta y}{\Delta x} = \frac{f(3) - f(1)}{3 - 1}$ .

- (b) This is the limit of the slope of the secant line as  $h$  approaches 0:  $\lim_{h \rightarrow 0} \frac{f(1+h) - f(1)}{h}$ .

2. The curve looks more like a line as the viewing rectangle gets smaller.



3. (a) (i) Using Definition 1 with  $f(x) = x^2$  and  $a = 1$ :

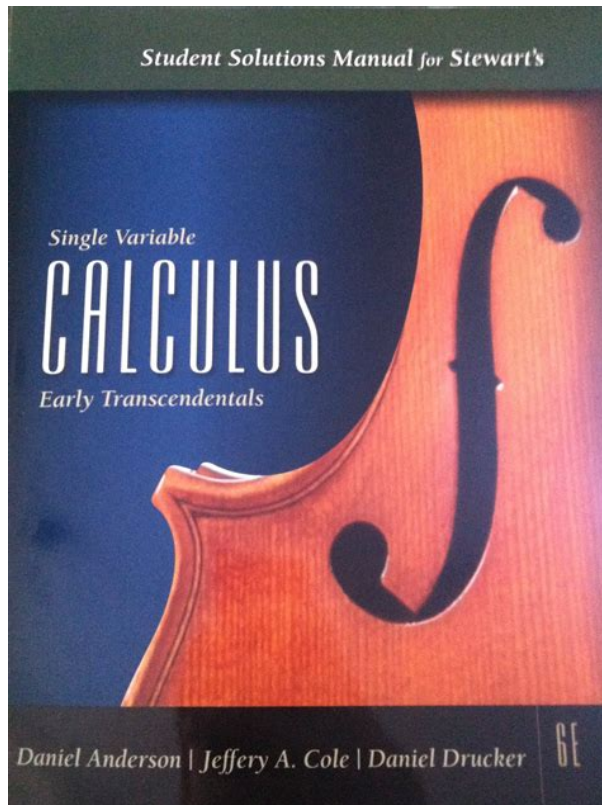
$$\begin{aligned} \lim_{h \rightarrow 0} \frac{f(1+h) - f(1)}{h} &= \lim_{h \rightarrow 0} \frac{(1+h)^2 - 1^2}{h} = \lim_{h \rightarrow 0} \frac{1 + 2h + h^2 - 1}{h} = \lim_{h \rightarrow 0} \frac{2h + h^2}{h} = \lim_{h \rightarrow 0} (2 + h) = 2 \end{aligned}$$

- (ii) Using Equation 2 with  $f(x) = x^2$  and  $a = 1$ :

$$\begin{aligned} \lim_{h \rightarrow 0} \frac{f(1+h) - f(1)}{h} &= \lim_{h \rightarrow 0} \frac{(1+h)^2 - 1^2}{h} = \lim_{h \rightarrow 0} \frac{1 + 2h + h^2 - 1}{h} = \lim_{h \rightarrow 0} \frac{2h + h^2}{h} = \lim_{h \rightarrow 0} (2 + h) = 2 \end{aligned}$$

- (b) An equation of the tangent line is  $y - f(1) = f'(1)(x - 1)$ , or  $y - 1 = 2(x - 1)$ , or  $y = 2x - 1$ .

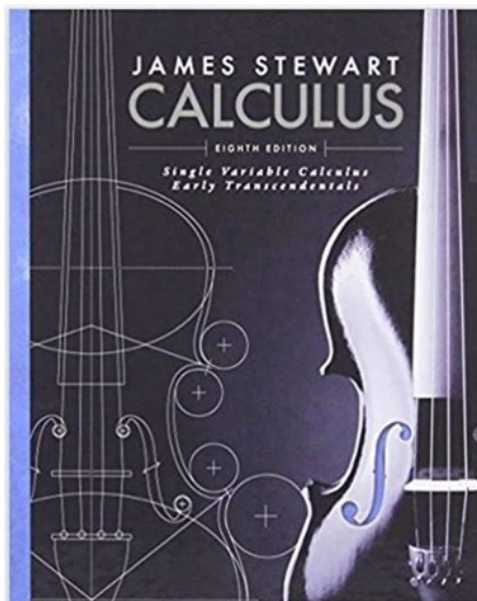
Register a free business account He did research at the University of London and was influenced by the famous mathematician George Polya at Stanford University. Stewart was most recently Professor of Mathematics at McMaster University, and his research field was harmonic analysis. Stewart was the author of a bestselling calculus textbook series published by Cengage Learning, including CALCULUS, CALCULUS EARLY TRANSCENDENTALS, and CALCULUS CONCEPTS AND CONTEXTS, as well as a series of precalculus texts. Jeffrey A. Cole has been teaching mathematics and computer science at AnokaRamsey Community College since fall 1981. If you are a seller for this product, would you like to suggest updates through seller support To calculate the overall star rating and percentage breakdown by star, we don't use a simple average. Instead, our system considers things like how recent a review is and if the reviewer bought the item on Amazon. It also analyzes reviews to verify trustworthiness. Please try again later. John C. Canniff 2.0 out of 5 stars Text goes to 17 Either this is the wrong solutions manual being paired with the text book or maybe there is expanded version. Either way, there is no way to tell until you have the book in your hand. It only covers chapters 111, there are 18 in the whole textbook. However the books website takes some questions directly from the book exercises, so then the answer book skips those questions. Instead of making multiple versions of a question so that the solutions book could help the students find the path to the answer, they are lazy, copying the exact questions and not giving you answers in the solutions book. For the ridiculous amount of money that these books cost, this is absolutely outrageous. Solutions are also pretty light on detail and skip steps without mentioning they are skipping steps. not really what you want in a solutions manual. Paper it is printed on is thin and cheap too. [httpdocs/pic/file/differential\\_equations\\_and\\_linear\\_algebra\\_3rd\\_solutions\\_manual.xml](httpdocs/pic/file/differential_equations_and_linear_algebra_3rd_solutions_manual.xml)



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To find the **Maclaurin series** of a function, consider the function

$$f(x) = 2^x$$

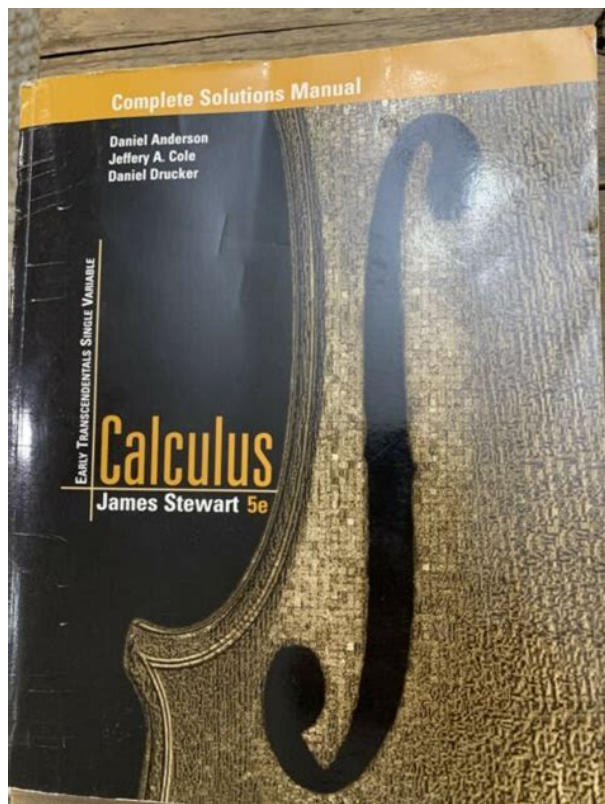
Maclaurin series of a function  $f(x)$  is defined as

$$\begin{aligned} f(x) &= \sum_{n=0}^{\infty} \frac{f^{(n)}(0)}{n!} x^n \\ &= f(0) + \frac{f'(0)}{1!} x + \frac{f''(0)}{2!} x^2 + \frac{f'''(0)}{3!} x^3 + \dots \end{aligned}$$

So, it is need to compute  $f(0), f'(0), f''(0), f'''(0), \dots$

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We use some nonstandard notation in order to save space. All Rights Reserved. By choosing a single test value from each interval, we see that both intervals  $(-\infty, -2)$  and  $(-1, \infty)$  satisfy the inequality. Thus, the domain is  $(-\infty, -2) \cup (-1, \infty)$ . Note that the function is the sum of two root functions. So is defined on the intersection of the domains of these two root functions. The highest point occurs at about 17.115. Thus, the range of the vertical ground acceleration is  $(85, 115]$ . The distance traveled by the car is a function of the time. The number of hours worked is rounded down to the nearest quarter of an hour. Hence, the curve fails the Vertical Line Test. 8. Yes, the curve is the graph of a function because it passes the Vertical Line Test. The next 30 years saw a gradual increase to 190 pounds. Possible reasons for the drop in weight at 30 years of age: diet, exercise, health problems. 12. First, the tub was filled with water to a height of 15 in. Then a person got into the tub, raising the water level to 20 in. At around 12 minutes, the person stood up in the tub but then immediately sat down. Finally, at around 17 minutes, the person got out of the tub, and then drained the water. 13. The water will cool down almost to freezing as the ice melts. Then, when the ice has melted, the water will slowly warm up to room temperature. 14. Runner A won the race, reaching the finish line at 100 meters in about 15 seconds, followed by runner B with a time of about 19 seconds, and then by runner C who finished in around 23 seconds. B initially led the race, followed by C, and then A. C then passed B to lead for a while. Then A passed first B, and then passed C to take the lead and finish first. Finally, B passed C to finish in second place. The graph of  $f$  is a parabola opening upward since the coefficient of  $x^2$  is positive.

The expression with the positive radical represents the top half of the parabola, and the one with the negative radical represents the bottom half. Let the length and width of the rectangle be  $x$  and  $y$ . If we further restrict to be larger than 5, then  $(5, 10]$  would be the domain. 58. Let the length and width of the rectangle be  $x$  and  $y$ . If we further restrict to be larger than 4, then  $(4, \infty)$  would be the domain. 59. Let the length of a side of the equilateral triangle be  $s$ . All Rights Reserved. Hence,  $f$  is neither even nor odd. The most important features of the given graph are the intercepts and the maximum and minimum points. Using an intersect feature or zooming in, we find this value to be approximately 0.65. The graph of  $f(x) = \sqrt{x}$  is the reflection of that of  $f(x) = -\sqrt{x}$  about the  $x$ -axis, and the graph of  $f(x) = \sqrt[3]{x}$  is the reflection of that of  $f(x) = -\sqrt[3]{x}$  about the  $x$ -axis. The graph of  $f(x) = 10^x$  increases more quickly than that of  $f(x) = 3^x$  for  $x > 0$ , and approaches 0 faster as  $x \rightarrow -\infty$ . Each of the graphs approaches 0 as  $x \rightarrow -\infty$ , and each approaches  $\infty$  as  $x \rightarrow \infty$ . As  $a$  gets larger, the graph of  $f(x) = a^x$  moves right. As  $a$  changes from 1 to 0, the graph of  $f$  is stretched horizontally. Thus, by the Horizontal Line Test, the function is not one-to-one. 6. No horizontal line intersects the graph more than once. Thus, by the Horizontal Line Test, the function is one-to-one. 7. No horizontal line intersects the graph more than once. Thus, by the Horizontal Line Test, the function is one-to-one. 8. We could draw a horizontal line that intersects the graph in more than one point. Also, they are all increasing, and all approach 0 as  $x \rightarrow -\infty$ . The functions with larger bases increase extremely slowly, and the ones with smaller bases do so somewhat more quickly. The graph of  $f(x) = 10^x$  increases more quickly than that of  $f(x) = 3^x$ . The set  $(-\infty, \infty)$  is called the domain of the function. If the graph of a function is symmetric with respect to the  $y$ -axis, then  $f$  is even.

If the graph of a function is symmetric with respect to the origin, then  $f$  is odd. Your choice depends on whether you think medical advances will keep increasing life expectancy, or if there is bound to be a natural leveling off of life expectancy. All Rights Reserved.   
 PRINCIPLES OF

PROBLEM SOLVING

1. But 2 is even and 5 is odd. We have arrived at a contradiction, so we conclude that our hypothesis, that  $\log_2 5$  is rational, is false. Thus,  $\log_2 5$  is irrational.

15. Let be the distance traveled on each half of the trip. The average of these slopes is  $31\frac{4}{108}$ . Just as 150 is the reference angle for 30,  $\sin^{-1}\frac{1}{4}$  is the reference angle for  $\sin^{-1}\frac{1}{4}$ .

Solution 1

First, we find the coordinates of and as functions of . So the coordinates of are  $(2, 1)$  and  $(4, 2)$ . We can find this number by restricting to lie in some interval centered at . This contradicts  $\frac{1}{2}$ . Hence,  $\frac{1}{2} \leq \frac{1}{2}$ , so  $\frac{1}{2} \leq \frac{1}{2}$ . By Theorem 7, since equals the root function on  $[1, \infty)$  is continuous on  $[1, \infty)$ . But is continuous nowhere else. Let be the distance from the monastery to the top of the mountain. As, because 3 and 2. As, because 3 and 2. There is no sign change at 2. Also, as because all three factors are large. The particle is moving to the left when is decreasing; that is, on the interval  $(2, 3)$ . The particle is standing still when is constant; that is, on the intervals  $[1, 2]$  and  $[3, 4]$ .

b The velocity of the particle is equal to the slope of the tangent line of the graph. Note that there is no slope at the corner points on the graph. Its units are bacteria per hour.

b With unlimited space and nutrients, 0 should increase as increases; so 0.5010. If the supply of nutrients is limited, the growth rate slows down at some point in time, and the opposite may be true.

49. 0.8 is the rate at which the temperature is changing at 800 AM.

People are generally less willing to buy a product when its price increases.

51. a 0 is the rate at which the oxygen solubility changes with respect to the water temperature. We conclude that is the graph of the position function.

46. must be the jerk since none of the graphs are 0 at its high and low points. After some time, becomes small and negative as the contents of the hot water tank are exhausted. Finally, when the hot water has run out, is once again 0 as the water maintains its cold temperature.

c In the right triangle in the diagram, let be the side opposite angle and the side adjacent to angle. Note that  $0 \leq \frac{0}{2} \leq \frac{0}{2}$ . Now  $0 \cos^2 \frac{1}{2} \leq 0 \frac{0}{2} \leq \cos^2 \frac{1}{2} \leq \frac{1}{2} \leq 0 \frac{0}{2} \leq \cos^2 \frac{1}{2} \leq \frac{1}{2} \leq 0 \frac{0}{2} \leq \cos^2 \frac{1}{2} \leq \frac{1}{2}$ . The graph of has horizontal tangent lines to the left and right of the axis and has zeros at these points. Hence, is the graph of the derivative of the function for. Therefore, is the graph of, is the graph of 0, and is the graph of 00.

49. 0.1990 is the rate at which the total value of US currency in circulation is changing in billions of dollars per year. Choosing integer values for produces the graph.

7. is continuous on and . To make continuous on  $\mathbb{R}$ , we must have continuity at . We shall prove that has a fixed point. So and are isosceles, and the line segments, and are all of equal length. If 0, then a similar argument applies.

b Yes. The same argument applies.

c The same argument applies for quantities that vary continuously, such as barometric pressure. Its units are thousands of miles  $\text{lb in}^2$ . We want to find the rate of change of with respect to, that is. These estimates are somewhat less than the ones in part b.

d 1870 41,946 56. But part of the purpose of the Quotient Rule is to show that if and are differentiable, so is. All Rights Reserved.

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to a publicly accessible website, in whole or in part. Thus, the center of the circle is 3 5 and the radius is 5. The inequality 1 describes the points that lie All Rights Reserved. May not be scanned, copied, or duplicated, or posted to a publicly accessible website, in whole or in part. We put it in So is defined on the intersection of the domains of these two All Rights Reserved. May not be scanned, copied, or duplicated, or posted to a publicly accessible website, in whole or in part. All Rights Reserved. May not be scanned, copied, or duplicated, or posted to a publicly accessible website, in whole or in part.

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