CALCULUS

EIGHTH EDITION

LARSON HOSTETLER EDWARDS

Use the drop menus below to access exercises in other Chapters and Sections

Chapter 1

Chapter Review Exercises

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In Exercises 1 and 2, determine whether the problem can be solved using precalculus or if calculus is required. If the problem can be solved using precalculus, solve it. If the problem seems to require calculus, explain your reasoning. Use a graphical or numerical approach to estimate the solution.

S 1. Find the distance between the points (1, 1) and (3, 9) along the curve $y = x^2$.

2. Find the distance between the points (1, 1) and (3, 9) along the line $y = 4x - 3$.

In Exercises 3 and 4, complete the table and use the result to estimate the limit. Use a graphing utility to graph the function to confirm your result.

x	-0.1	-0.01	-0.001	0.001	0.01	0.1
$f(x)$						

S 3. $\lim_{x \to 0} \dfrac{[4/(x+2)] - 2}{x}$

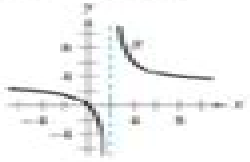
4. $\lim_{x \to 0} \dfrac{4(\sqrt{x+2} - \sqrt{2})}{x}$

In Exercises 5 and 6, use the graph to determine each limit.

S 5. $h(x) = \dfrac{x^3 - 2x}{x}$

(a) $\lim_{x \to 0} h(x)$ (b) $\lim_{x \to -1} h(x)$

6. $g(x) = \dfrac{3x}{x - 2}$



(a) $\lim_{x \to 2} g(x)$ (b) $\lim_{x \to 0} g(x)$

In Exercises 7–10, find the limit L. Then use the ε-δ definition to prove that the limit is L.

S 7. $\lim_{x \to 3} (3 - x)$

8. $\lim_{x \to 9} \sqrt{x}$

S 9. $\lim_{x \to 2} (x^2 - 3)$

10. $\lim_{x \to 5} 9$

In Exercises 11–24, find the limit (if it exists).

S 11. $\lim_{x \to 4} \sqrt{x + 2}$

12. $\lim_{x \to 4} 5[x - 1]$

S 13. $\lim_{x \to -2} \dfrac{x + 2}{x^2 - 4}$

14. $\lim_{x \to 3} \dfrac{x^2 - 9}{x - 3}$

S 15. $\lim_{x \to 4} \dfrac{\sqrt{x} - 2}{x - 4}$

16. $\lim_{x \to 0} \dfrac{\sqrt{4 + x} - 2}{x}$

S 19. $\lim_{x \to -5} \dfrac{x^3 + 125}{x + 5}$

20. $\lim_{x \to -2} \dfrac{x^3 - 4}{x^3 + 8}$

S 21. $\lim_{x \to 0} \dfrac{1 - \cos x}{\sin x}$

22. $\lim_{x \to 0^+} \dfrac{4x}{\tan x}$

S 23. $\lim_{\Delta x \to 0} \dfrac{\sin[(\pi/6) + \Delta x] - (1/2)}{\Delta x}$

[Hint: $\sin(\theta + \phi) = \sin\theta\cos\phi + \cos\theta\sin\phi$*]*

24. $\lim_{\Delta x \to 0} \dfrac{\cos(\pi + \Delta x) + 1}{\Delta x}$

[Hint: $\cos(\theta + \phi) = \cos\theta\cos\phi - \sin\theta\sin\phi$*]*

In Exercises 25 and 26, evaluate the limit given $\lim_{x \to c} f(x) = -\frac{3}{4}$ and $\lim_{x \to c} g(x) = \frac{2}{3}$.

S 25. $\lim_{x \to c} [f(x)g(x)]$

26. $\lim_{x \to c} [f(x) + 2g(x)]$

Numerical, Graphical, and Analytic Analysis **In Exercises 27 and 28, consider**

$\lim_{x \to 1^+} f(x)$.

(a) Complete the table to estimate the limit.

(b) Use a graphing utility to graph the function and use the graph to estimate the limit.

(c) Rationalize the numerator to find the exact value of the limit analytically.

x	1.1	1.01	1.001	1.0001
$f(x)$				

S 27. $f(x) = \dfrac{\sqrt{2x + 1} - \sqrt{3}}{x - 1}$

28. $f(x) = \dfrac{1 - \sqrt{x}}{x - 1}$

[Hint: $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$*]*

Free-Falling Object **In Exercises 29 and 30, use the position function $s(t) = -4.9t^2 + 200$, which gives the height (in meters) of an object that has fallen from a height of 200 meters. The velocity at time $t = a$ seconds is given by**

$\lim_{t \to a} \dfrac{s(a) - s(t)}{a - t}$.

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