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(b) $\lim_{x\to\pi/2}\left(\frac{1}{\pi/2-x}-\tan x\right)=\lim_{x\to\pi/2}\left(\frac{1}{\pi/2-x}-\frac{\sin x}{\cos x}\right)=\lim_{x\to\pi/2}\frac{\cos x-(\pi/2-x)\sin x}{(\pi/2-x)\cos x}=$

$=\lim_{x\to\pi/2}\frac{-(\pi/2-x)\cos x}{-(\pi/2-x)\sin x-\cos x}=\lim_{x\to\pi/2}\frac{(\pi/2-x)\sin x+\cos x}{-(\pi/2-x)\cos x+2\sin x}=0$ (by applying L'H's rule twice).

(c) $1/(\pi/2-1.57)\approx 1255.765534, \tan 1.57\approx 1255.765592;\ 1/(\pi/2-1.57)-\tan 1.57\approx 0.000058.$

65. **(b)** $\lim_{x\to+\infty}x(k^{1/x}-1)=\lim_{t\to0^+}\frac{k^t-1}{t}=\lim_{t\to0^+}\frac{(\ln k)k^t}{1}=\ln k.$

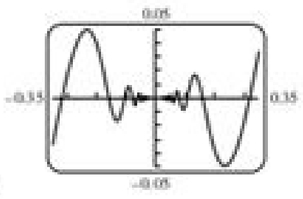
(c) $\ln 0.3=-1.20397,\ 1024\left(\sqrt[100]{0.3}-1\right)=-1.20327;\ \ln 2=0.69315,\ 1024\left(\sqrt[100]{2}-1\right)=0.69338.$

66. If $k\neq-1$ then $\lim_{x\to0}(k+\cos tx)=k+1\neq0$, so $\lim_{x\to0}\frac{k+\cos tx}{x^2}=\pm\infty$. Hence $k=-1$, and by the rule

$\lim_{x\to0}\frac{-1+\cos tx}{x^2}=\lim_{x\to0}\frac{-t\sin tx}{2x}=\lim_{x\to0}\frac{-t^2\cos tx}{2}=-\frac{t^2}{2}=-4$ if $t=\pm2\sqrt{2}$.

67. **(a)** No; $\sin(1/x)$ oscillates as $x\to0$.

(b)



(c) For the limit as $x\to0^+$ use the Squeezing Theorem together with the inequalities $-x^2\le x^2\sin(1/x)\le x^2$. For $x\to0^-$ do the same; thus $\lim_{x\to0}f(x)=0$.

68. **(a)** Apply the rule to get $\lim_{x\to0}\frac{-\cos(1/x)+2x\sin(1/x)}{\cos x}$ which does not exist (nor is it $\pm\infty$).

(b) Rewrite as $\lim_{x\to0}\left[\frac{x}{\sin x}\right][x\sin(1/x)]$, but $\lim_{x\to0}\frac{x}{\sin x}=\lim_{x\to0}\frac{1}{\cos x}=1$ and $\lim_{x\to0}x\sin(1/x)=0$, thus

$\lim_{x\to0}\left[\frac{x}{\sin x}\right][x\sin(1/x)]=(1)(0)=0.$

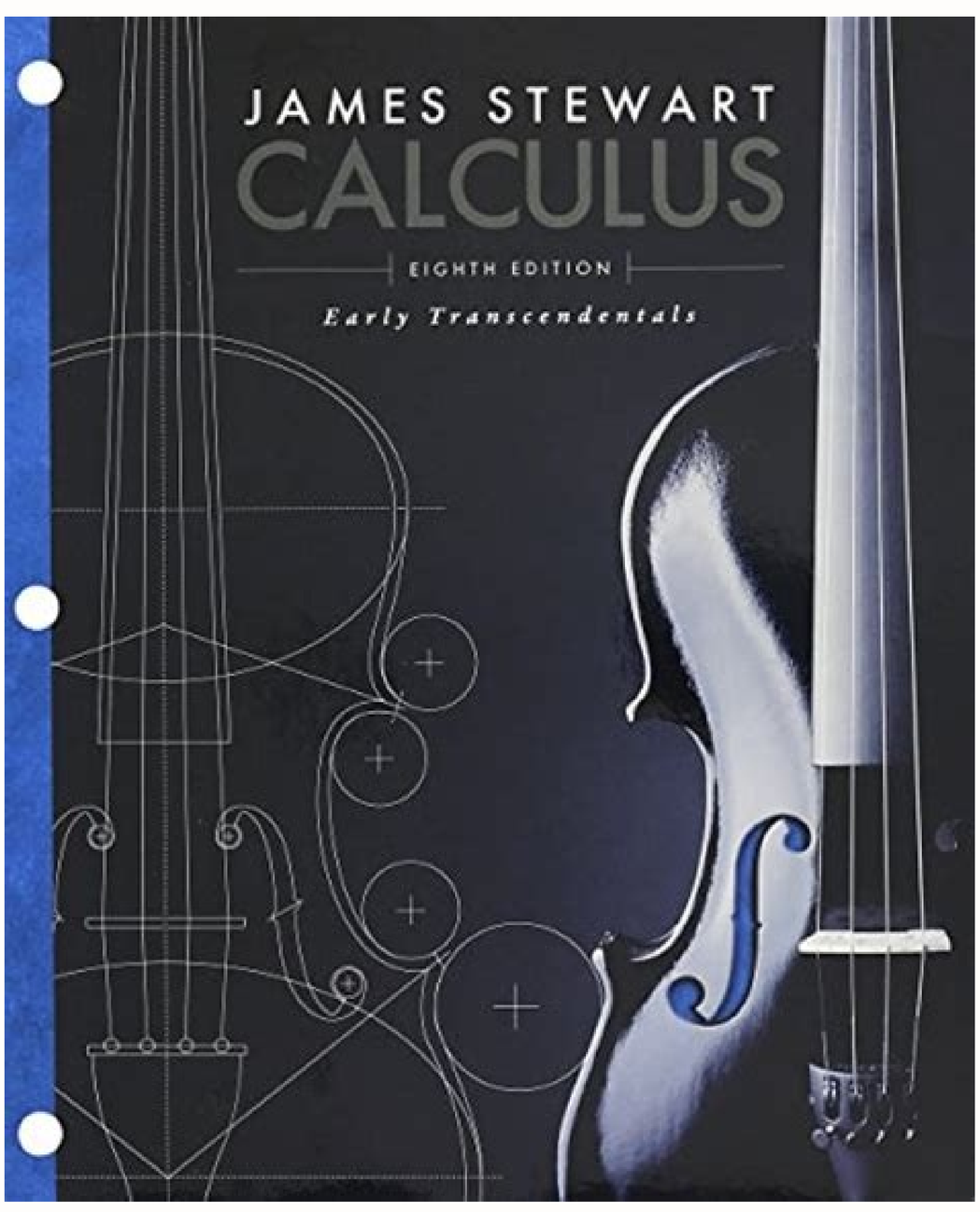
69. $\lim_{x\to0^+}\frac{\sin(1/x)}{(\sin x)/x}$, $\lim_{x\to0^+}\frac{\sin x}{x}=1$ but $\lim_{x\to0^+}\sin(1/x)$ does not exist because $\sin(1/x)$ oscillates between -1 and 1 as $x\to+\infty$, so $\lim_{x\to0^+}\frac{x\sin(1/x)}{\sin x}$ does not exist.

70. Since $f(a)=g(a)=0$, then for $x\neq a$, $\frac{f(x)}{g(x)}=\frac{(f(x)-f(a))/(x-a)}{(g(x)-g(a))/(x-a)}$. Now take the limit: $\lim_{x\to a}\frac{f(x)}{g(x)}=$ $\lim_{x\to a}\frac{(f(x)-f(a))/(x-a)}{(g(x)-g(a))/(x-a)}=\frac{f'(a)}{g'(a)}$.

Chapter 3 Review Exercises

1. **(a)** $3x^2+x\frac{dy}{dx}+y-2=0,\ \frac{dy}{dx}=\frac{2-y-3x^2}{x}.$

(b) $y=(1+2x-x^3)/x=1/x+2-x^2, dy/dx=-1/x^2-2x.$



a. Use $u=\sqrt{1-x^2}$, $dv=x^3$. A new substitution will be necessary for $\int v\,du$. Resulting integral:

$$\frac{1}{4}x^4\sqrt{1-x^2}-\frac{1}{4}\left(1-x^2\right)^{1/2}+\frac{1}{6}\left(1-x^2\right)^{3/2}-\frac{1}{20}\left(1-x^2\right)^{5/2}+C$$

b. Let $u=1-x^2$, $du=-2x\,dx$. Resulting integral:

$$-\frac{1}{3}\left(1-x^2\right)^{3/2}+\frac{1}{5}\left(1-x^2\right)^{5/2}+C$$

c. Use $x=\sin\theta$, then rework the expression to obtain $\sin^3\theta\cos^2\theta$ and solve according to the procedure from Section 8.3. Resulting integral:

$$-\frac{1}{3}\left(1-x^2\right)^{3/2}+\frac{1}{5}\left(1-x^2\right)^{5/2}+C$$

Note that the expression from (a) is equivalent to those of (b) and (c).

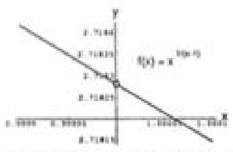
75. (a) $f(x) = x^{1/(1-x)}$

x	.9	.99	.999	.9999	.99999	.999999
$f(x)$	.348678	.366032	.367695	.367861	.367877	.367879

x	1.1	1.01	1.001	1.0001	1.00001	1.000001
$f(x)$	.385543	.369711	.368063	.367897	.367881	.367878

$\lim_{x \to 1} f(x) \approx 0.36788$

(b)



Graph is NOT TO SCALE. Also, the intersection of the axes is not the origin: the axes intersect at the point (1, 2.71820).

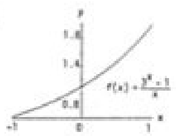
76. (a) $f(x) = (3^x - 1)/x$

x	.1	.01	.001	.0001	.00001	.000001
$f(x)$	1.161231	1.104669	1.099215	1.098672	1.098618	1.098612

x	−.1	−.01	−.001	−.0001	−.00001	−.000001
$f(x)$	1.040415	1.092599	1.098009	1.098551	1.098606	1.098611

$\lim_{x \to 0} f(x) \approx 1.0986$

(b)



77. $\lim_{x \to c} f(x)$ exists at those points c where $\lim_{x \to c} x^4 = \lim_{x \to c} x^2$. Thus, $c^4 = c^2$ $c^2(1 - c^2) = 0$ $c = 0, 1$, or -1. Moreover, $\lim_{x \to 0} f(x) = \lim_{x \to 0} x^2 = 0$ and $\lim_{x \to -1} f(x) = \lim_{x \to 1} f(x) = 1$.

78. Nothing can be concluded about the values of f, g, and h at $x = 2$. Yes, $f(2)$ could be 0. Since the conditions of the sandwich theorem are satisfied, $\lim_{x \to 2} f(x) = -5 \neq 0$.

79. 1 $\lim_{x \to 4} \frac{f(x) - 5}{x - 2} = \frac{\lim_{x \to 4} f(x) - \lim_{x \to 4} 5}{\lim_{x \to 4} x - \lim_{x \to 4} 2} = \frac{\lim_{x \to 4} f(x) - 5}{4 - 2}$ $\lim_{x \to 4} f(x) - 5 = 2(1)$ $\lim_{x \to 4} f(x) = 2 + 5 = 7$.

80. (a) $1 = \lim_{x \to -2} \frac{f(x)}{x^2} = \frac{\lim_{x \to -2} f(x)}{\lim_{x \to -2} x^2} = \frac{\lim_{x \to -2} f(x)}{4}$ $\lim_{x \to -2} f(x) = 4$.

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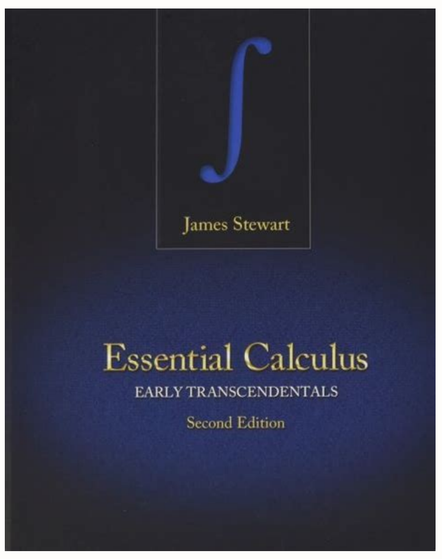

Inverse sine function The function y = sin-1 x Inverse variation See Power function. Control The principle of experimental design that makes it possible to rule out other factors when making inferences about a particular explanatory variable Difference of functions (f - g)(x) = f(x) - g(x) Domain of validity of an identity The set of values of the variable for which both sides of the identity are defined Hypotenuse Side opposite the right angle in a right triangle. Initial point See Arrow. If you need the current source, send me an email and I will update it as soon as possible. Lulu sometimes has special offers for discounts or free shipping; check the main Lulu page before you order. Additive inverse of a complex number The opposite of a + bi, or -a - bi Compounded monthly See Compounded k times per year. The source code for the book is available, with some linux scripts to help with production. Chegg costs money, GradeSaver solutions are free! 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