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a. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1}-1}{x}$	b. $\lim_{x \rightarrow 0} (\sqrt{x+1}-6)$	c. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1}-6}{x}$
d. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1}-\sqrt{x+2}}{x}$	e. $\lim_{x \rightarrow 0} (\sqrt{x+1}-0)$	f. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1}-6}{\sqrt{x+1}}$
g. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1}}{x}$	h. $\lim_{x \rightarrow 0} (\sqrt{x+1}-0)$	i. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1}-\sqrt{x+2}}{x}$
j. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1}}{\sqrt{x+2}}$	k. $\lim_{x \rightarrow 0} (\sqrt{x+1}-6)$	l. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1}-6}{x}$
m. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1}-6}{\sqrt{x+1}}$	n. $\lim_{x \rightarrow 0} (\sqrt{x+1}-0)$	o. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1}-6}{x}$
p. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1}-6}{x}$	q. $\lim_{x \rightarrow 0} (\sqrt{x+1}-0)$	r. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1}-6}{x}$
s. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1}-6}{x}$	t. $\lim_{x \rightarrow 0} (\sqrt{x+1}-0)$	u. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1}-6}{x}$
v. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1}-6}{x}$	w. $\lim_{x \rightarrow 0} (\sqrt{x+1}-0)$	x. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1}-6}{x}$
y. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1}-6}{x}$	z. $\lim_{x \rightarrow 0} (\sqrt{x+1}-0)$	aa. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1}-6}{x}$

Name: \_\_\_\_\_ Problem 4: \_\_\_\_\_ /17

Problem 4(17 points) In each of the following cases, compute the derivative. Show all your work and write a box or circle around your final **answer**.

(a)(5 points)

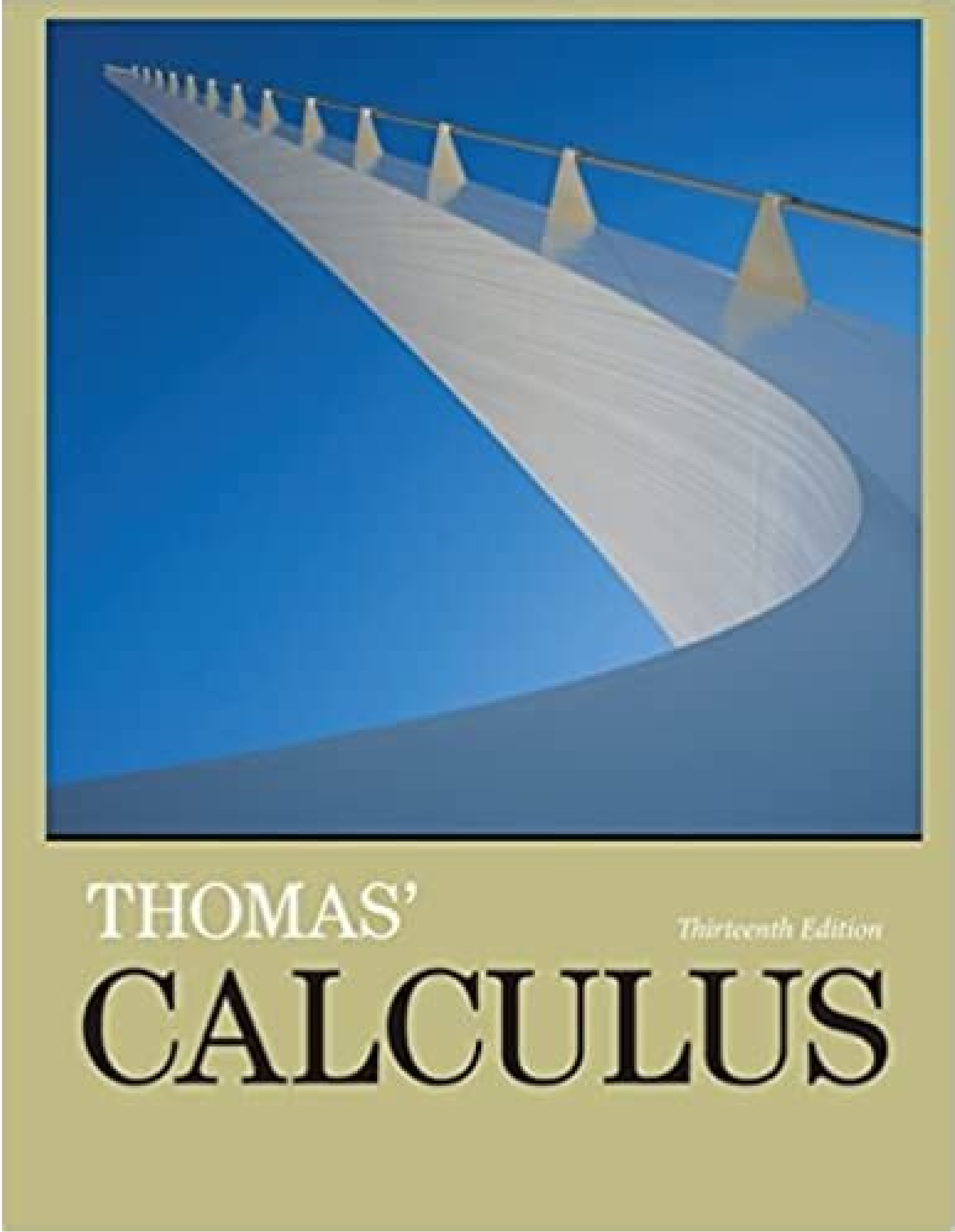
$\frac{d}{dx} x^x.$

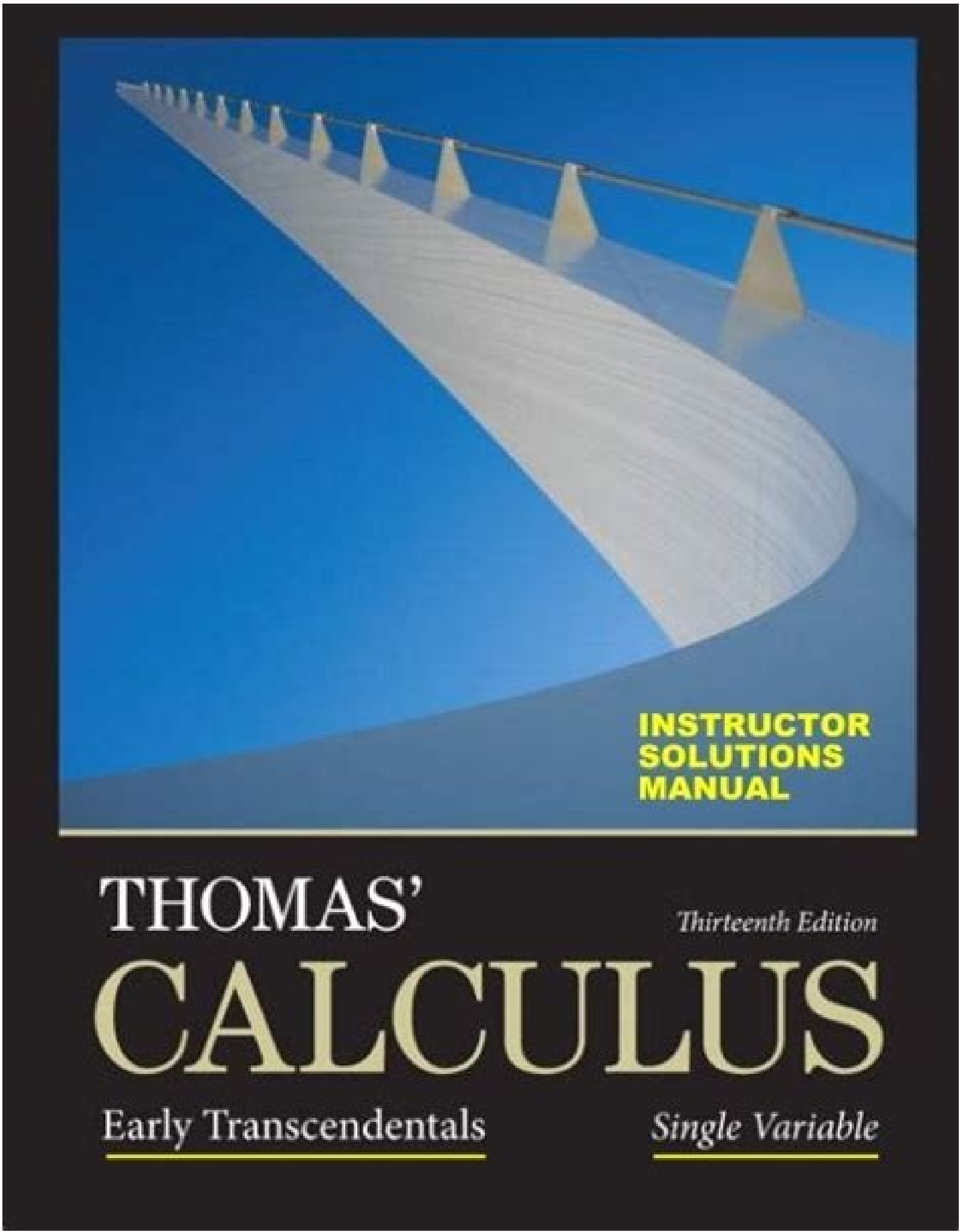
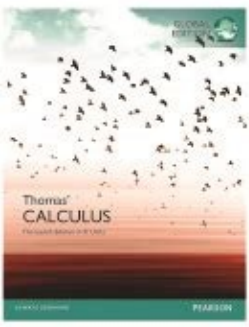
$y = x^x, \quad u = \ln(y) = \ln(x^x) = x \ln(x),$   
 $\frac{du}{dx} = 1 \cdot \ln(x) + x \cdot \frac{1}{x} = \ln(x) + 1; \quad \frac{du}{dx} = \frac{du}{dy} \frac{dy}{dx} = \frac{1}{y} \frac{dy}{dx};$   
 $\frac{dy}{dx} = y \cdot \frac{du}{dx} = \boxed{(\ln(x) + 1) x^x}$

(b)(5 points)

$\frac{d}{dx} \frac{x\sqrt{x+1}}{e^{2x}}.$

$y = x(x+1)^{\frac{1}{2}} e^{-2x}, \quad u = \ln(y) = \ln(x(x+1)^{\frac{1}{2}} e^{-2x})$   
 $= \ln(x) + \frac{1}{2} \ln(x+1) - 2x, \quad \frac{du}{dx} = \frac{1}{x} + \frac{1}{2(x+1)} - 2,$   
 $\frac{du}{dx} = \frac{du}{dy} \cdot \frac{dy}{dx} = \frac{1}{y} \frac{dy}{dx}; \quad \frac{dy}{dx} = y \cdot \frac{du}{dx} = \boxed{\left(\frac{1}{x} + \frac{1}{2(x+1)} - 2\right) \frac{x\sqrt{x+1}}{e^{2x}}}$   
 $= \boxed{\frac{-4x^2 - x + 2}{2\sqrt{x+1} e^{2x}}}$





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