MATH 141 HW 09 (6438248)

Due: Fri Oct 10 2014 11:59 PM EDT

Question

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1. Question Details

SCalcET6 4.4.005.MI. [1387819]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to 3} \frac{x^2 - 9}{x^2 - 3x}$$



2. Question Details

SCalcET6 4.4.006. [803637]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to 1} \frac{x^2 + 3x - 4}{x - 1}$$

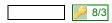


3. Question Details

SCalcET6 4.4.007. [803654]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to 1} \frac{x^8 - 1}{x^3 - 1}$$



4. Question Details

SCalcET6 4.4.010.MI. [1387263]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to 0} \frac{\sin(4 x)}{\tan(5 x)}$$



5. Question Details

SCalcET6 4.4.011. [803644]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{t \to 0} \frac{e^t - 1}{t^7}$$

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SCalcET6 4.4.012.MI. [1386438]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{t\to 0} \frac{e^{2t}-1}{t}$$

7. Question Details

SCalcET6 4.4.015.MI. [1533250]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to \infty} \frac{\ln x}{\sqrt{x}}$$

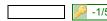


8. Question Details

SCalcET6 4.4.016. [703938]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to \infty} \frac{x + x^2}{3 - 5x^2}$$



9. Question Details

SCalcET6 4.4.018. [803629]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to \infty} \frac{\ln(\ln(2 x))}{2x}$$



10. Question Details

SCalcET6 4.4.019. [803623]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to \infty} \frac{e^x}{x^3}$$



11. Question Details

SCalcET6 4.4.020. [1816138]

Evaluate the limit.

$$\lim_{x \to 1} \frac{\ln x}{\sin 7\pi x}$$



SCalcET6 4.4.021. [803631]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x\to 0}\frac{e^x-1-x}{x^2}$$

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13. Question Details

SCalcET6 4.4.022. [803636]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to 0} \frac{25e^{\frac{x}{5}} - 25 - 5x - \frac{1}{2}x^2}{x^3}$$





14. Question Details

SCalcET6 4.4.024. [1411592]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to 0} \frac{x - \sin(x)}{x - \tan(x)}$$



15. Question Details

SCalcET6 4.4.025. [1291320]

Evaluate the limit.

$$\lim_{t \to 0} \frac{7^t - 6^t}{t}$$



16. Question Details

SCalcET6 4.4.026. [803642]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to 0} \frac{7\sin(x) - 7x}{x^3}$$

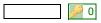


17. Question Details

SCalcET6 4.4.028.MI. [1533262]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x\to\infty} \frac{(\ln x)^2}{3x}$$



SCalcET6 4.4.029. [803651]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to 0} \frac{5 - 5\cos(x)}{x^2}$$

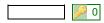


19. Question Details

SCalcET6 4.4.031. [703891]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to 0} \frac{4x + \sin(x)}{8x + \cos(x)}$$



20. Question Details

SCalcET6 4.4.033. [1291282]

Evaluate the limit.

$$\lim_{x \to 1} \frac{1 - x + \ln(x)}{1 + \cos(5\pi x)}$$



21. Question Details

SCalcET6 4.4.036. [803627]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to 0} \frac{e^{2x} - e^{-2x} - 4x}{x - \sin(x)}$$



22. Question Details

SCalcET6 4.4.039. [1290931]

Evaluate the limit. (If you need to use ∞ or $-\infty$, enter INFINITY or -INFINITY, respectively.)

$$\lim_{x \to \infty} x \sin \left(\frac{2 \pi}{x} \right)$$



23. Question Details

SCalcET6 4.4.040. [803628]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to -\infty} \, x^2 e^{2x}$$



SCalcET6 4.4.041.MI. [1533225]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

 $\lim_{x\to 0} \cot 3x \sin 6x$

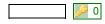


25. Ouestion Details

SCalcET6 4.4.042. [803630]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to 0^+} \sin\left(x\right) \ln\left(2 \ x\right)$$



26. Question Details

SCalcET6 4.4.043. [803640]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to \infty} x^3 e^{-x^2}$$

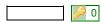


27. Question Details

SCalcET6 4.4.044. [803633]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x\to 5\pi/4} (1-\tan{(x)})\sec{(x)}$$



28. Question Details

SCalcET6 4.4.046. [703926]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to \infty} x \tan\left(\frac{8}{x}\right)$$



29. Question Details

SCalcET6 4.4.047. [803625]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to 1} \left(\frac{5x}{x - 1} - \frac{5}{\ln(x)} \right)$$





SCalcET6 4.4.048. [803653]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to 0} (\csc(x) - \cot(x))$$



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31. Question Details

SCalcET6 4.4.051.MI. [1533177]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to \infty} (5x - \ln x)$$

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32. Question Details

SCalcET6 4.4.052. [703684]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x \to \infty} \left(x e^{1/x} - x \right)$$



33. Question Details

SCalcET6 4.4.053.MI. [1533243]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x\to 0^+} x^x$$



34. Question Details

SCalcET6 4.4.054. [803650]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x\to 0^+} (\tan{(7\ x)})^x$$



35. Question Details

SCalcET6 4.4.055.MI. [1387491]

Evaluate the limit.

$$\lim_{x \to 0} (1 - 6x)^{1/x}$$

$$e^{-6}$$

SCalcET6 4.4.057. [1290023]

Evaluate the limit.

$$\lim_{x\to\infty}\left(1+\frac{3}{x}+\frac{5}{x^2}\right)^x$$



37. Question Details

SCalcET6 4.4.059. [703654]

Evaluate the limit. (If you need to use $-\infty$ or ∞ , enter -INFINITY or INFINITY.)

$$\lim_{x\to\infty} x^{9/x}$$



38. Question Details

SCalcET6 4.4.064. [1816596]

Find the limit. Use l'Hospital's Rule if appropriate. If there is a more elementary method, consider using it.

$$\lim_{x\to\infty} \left(\frac{5x-2}{5x+4}\right)^{5x+}$$



39. Question Details

SCalcET6 4.4.066. [1291446]

Use l'Hospital's Rule to find the value of the limit.

$$\lim_{x \to 0} \frac{7^x - 6^x}{3^x - 2^x}$$



Assignment Details

Name (AID): MATH 141 HW 09 (6438248)

Submissions Allowed: **100** Category: **Homework**

Code: Locked: **No**

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