Review 3 Fall 1990

P. 702 13ab, 14–19, 21–24, 26a

Note: This is assignment #27 on the syllabus.

Extra Problems. Find the limits:

1. $$\lim_{x \to -1} \frac{x^2 - 1}{\ln(5 + 4x)}$$

2. $$\lim_{x \to 0^+} \left(\frac{1}{x} - \frac{1}{\cos x - 1} \right)$$

3. $$\lim_{x \to 0^+} (1 = 5x)^{-\frac{3}{x}}$$

4. $$\lim_{x \to 0^-} \frac{e^{2x} - e^{3x}}{x^2}$$

5. $$\lim_{x \to \infty} (3x + 1)^{\frac{1}{\ln x}}$$