*800 Questions*
*in*

# *Calculus*

## Errata

| Question | Printed | Should be |
|---|---|---|
| 2001 #12 (E) | $(1, -1)$ | $(-1, 1)$ |
| 1996 #11 (B) | $(1, -1)$ | $(-1, 1)$ |
| 1988 #23: | Suppose $g(x)$ ...<br>$\lim_{x \to 0^+} g(x)$ | Suppose $g(h)$ ...<br>$\lim_{h \to 0^+} g(h)$ |
| 1987 #17 | If $x = \ln x^2$ | If $f(x) = \ln x^2$ |
| 1987 #25 | $\lim_{h \to 0} \frac{\sin\left(\frac{\pi}{3} + 2h\right)}{h} =$ | $\lim_{h \to 0} \frac{\sin\left(\frac{\pi}{3} + 2h\right) - \frac{\sqrt{3}}{2}}{h} =$ |
| 1987 #29 | for $t > 0$ | for $t \geq 0$ |
| 1984 #15 answer | 90 ft/sec | 90 in/sec |
| 1984 #18 | interval $0 \leq x \leq \frac{\pi}{2}$ | interval $0 \leq x < \frac{\pi}{2}$ |
| 1984 #31 | Find $\lim_{x \to 0} r$ | Find $\lim_{p \to 0} r$ |
| 1982 #13 | over the interval $-2 < x < 2$ | *should be removed* |
| 1981 #8 | Find the area of each of the regions | Find the combined area of the two regions |
| 1981 #11 answer | $\sqrt{3}$ | $\sqrt{13}$ |
| 1981 #25 answer | $\frac{\pi}{6} + \frac{3}{8}$ | $\frac{\pi}{6} + \frac{\sqrt{3}}{8}$ |
| 1981 #31 | bounded by $y^2 = x + 1$ | bounded by $y = x^2 + 1$ |