

Lesson 80

1. $\frac{2}{3}$

2. $\frac{3}{5}$

3. 1

4. -1

5. -1

6. $+\infty$

7. 0

8. ∞

9. $\frac{2}{\pi}$

10. a) $-\frac{1}{12}$

**10. There is a typo on the original question.
The question should say "Let f be a twice differentiable function."**

b) $\frac{1}{24}$

11. $-\frac{1}{2}$

12. $f(0) = 2$

$f'(0) = \frac{1}{64}$