

Math 114 Spring 2017  
Calculus I HW 8  
Due Friday, March 31

In this homework you do not need to compute derivatives from the definition, but may use any techniques of differentiation we have discussed in class. However, remember that you will need to compute derivatives directly from the definition on the test.

1. Stewart 2.5.2
2. Stewart 2.5.22
3. Stewart 2.5.36
4. Stewart 2.5.42
5. Stewart 2.5.44
6. Stewart 2.8.5 (no graphing)
7. Stewart 2.8.12
8. (★) Stewart 2.8.16

9. Find

$$\frac{d}{dx} \sqrt[5]{\frac{x^2 \sin(3x)}{\tan(x)}}$$

10. Find

$$\frac{d}{dx} \tan^4(\sqrt[3]{x^5 + x^3 + 2} + 1).$$