1. 
$$-e^{-x}$$

2.  $10x^{9} + 10^{x} \ln 10$ 

3.  $\frac{10}{x \ln 10}$ 

4.  $e^{2}$ 

6.  $e^{2}$ 

7.  $\frac{62^{44}}{5 \ln 5}$ 

8.  $0$ 

9.  $\frac{1}{3}(e^{20} - e^{-x})$ 

10.  $e^{-\sqrt{e}}$ 

11.  $(x^{2} - 3)^{6}(4x - 3)^{8}(\frac{6}{x^{2} - 3} + \frac{8}{4x - 3})$ 

12.  $x^{3/2}e^{(-x^{2}(\frac{3}{2x} - 2x))}$ 

13.  $(\sin x)^{4}(3 \ln \sin x + (3x + 4)\cot x)$ 

14.  $\frac{4^{x+9}}{3^{x^{2}}}(\ln 4 + 2x \ln 3)$ 

15.  $\sqrt[4]{x}(\frac{1-\ln x}{x^{2}})$ 

$$\frac{1}{2}e^{2x} - \frac{1}{2}e^{-2x} + 2x + C$$

$$\frac{1}{8} \cdot (5x + 1) + C$$

$$\frac{1}{8} \cdot (8x + 1) + C$$

$$\frac{1}{9} \cdot (x + 1)^{3} \cdot (x + 3 + 3x + 3x + 1) + C$$

$$\frac{1}{2}e^{2x} + 3x + 3 \cdot (1 + 1) + C$$

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$$\frac{1}{2}e^{2x} + 3x + 3 \cdot (1 + 1) + C$$

$$\frac{1}{2}e^{2x} + 3x + 3 \cdot (1 + 1) + C$$

$$\frac{1}{$$

$$T\left(\frac{1}{5}x^{5} - x^{4} - \frac{2}{3}x^{3} + 6x^{2} + 9x^{3}\right)^{3}$$

$$T\left(\frac{1}{5}x^{5} - x^{4} - \frac{2}{3}(3)^{3} + 6(3)^{2} + 9(3)\right)$$

$$T\left(\frac{2^{43}}{5} - 8t - 18 + 54 + 27\right)$$

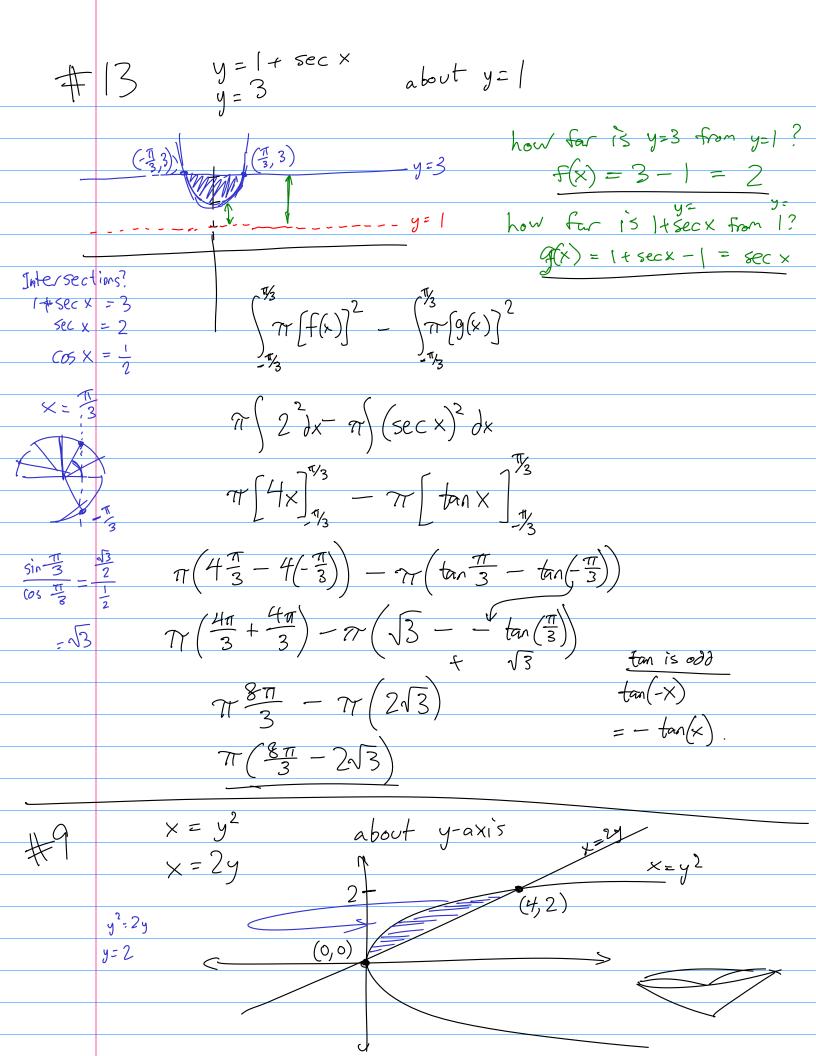
$$T\left(\frac{2^{43}}{5} - 8t - 18 + 54 + 27\right)$$

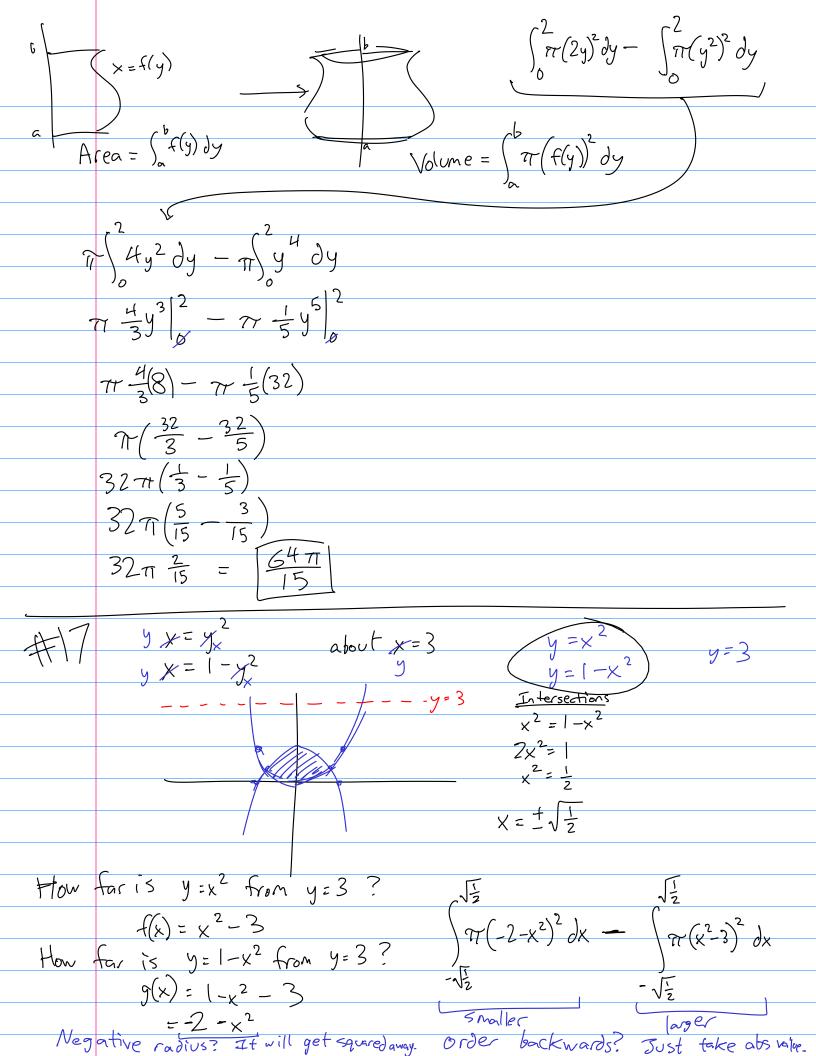
$$T\left(\frac{2^{43}}{5} - \frac{90}{5}\right)$$

$$T\left(\frac{153}{5}\right) = \frac{15377}{5}$$

$$T\left(\frac{15377}{5}\right) = \frac{15377}{5}$$

$$T\left(\frac{1537}{5}\right) = \frac{15377$$





$$T \left( \frac{x^{2}+2}{4} \right)^{2} dx - \frac{1}{7} \left( \frac{x^{2}-3}{4} \right)^{2} dx$$

$$T \left( \frac{x^{4}+4}{4} \right)^{2} + \frac{1}{4} dx - \left( \frac{x^{4}-6x^{2}+9}{4} \right) dx \right)$$

$$T \left( \frac{\sqrt{2}}{2} \right)^{2} \left( \frac{x^{4}+4}{2} \right)^{2} + \frac{1}{4} dx - \left( \frac{x^{4}-6x^{2}+9}{4} \right) dx \right)$$

$$T \left( \frac{\sqrt{2}}{3} \right)^{2} \left( \frac{\sqrt{2}}{3} \right)^{2} - \frac{\sqrt{2}}{3} dx \right)$$

$$T \left( \frac{\sqrt{2}}{3} \left( \frac{\sqrt{2}}{3} \right)^{2} - \frac{\sqrt{2}}{3} \right)$$

$$T \left( \frac{\sqrt{2}}{3} \left( \frac{\sqrt{2}}{3} \right)^{2} - \frac{\sqrt{2}}{3} \right)$$

$$T \left( \frac{\sqrt{2}}{3} \left( \frac{\sqrt{2}}{3} \right)^{2} - \frac{\sqrt{2}}{3} \right)$$

$$T \left( \frac{\sqrt{2}}{3} \left( \frac{\sqrt{2}}{3} \right)^{2} - \frac{\sqrt{2}}{3} \right)$$

$$T \sqrt{2} \left( -\frac{\sqrt{2}}{3} \right)$$

$$T \sqrt{2}$$

