



Wednesday, Mar. 20

Handout pp. 250-261

3, 9, 23, 31, 35, 44, 45

Handout p. 418 35, 36

Handout pp. 269-270

17, 19, 21

Friday, Mar. 22

Handout pp. 488-489

1, 8, 9, 10, 12, 14, 15, 17, 19, 21

*Final Project  
Checkpoint #1*

Tuesday, Mar. 26

Handout p. 495

3-7, 10

Textbook Sec. 6.10 pp. 503-504

24, 26, 27, 29, 33, 34, 37, 75a, f

Thursday, Mar. 28

Review Applications of Integration

Work on Projects

*Final Project  
Checkpoint #2*

*Journal Due*

Wednesday, Apr. 3

**APPLICATIONS OF INTEGRATION TEST**

*Final Project Checkpoint #3 due Friday!  
Math Portion of Project Due Next Friday!*

## Answers

### Sec. 6.10 pp. 503-504

$$24. \frac{dy}{dx} = -3 \sinh^2(4x) \cdot \cosh(4x) \cdot 4$$

$$26. \frac{dy}{dx} = \frac{1}{2} (\coth(3x))^{-\frac{1}{2}} \cdot -\operatorname{csch}^2(3x) \cdot 3$$

$$27. \frac{dy}{dx} = \frac{1}{\operatorname{sech}(2x)} \cdot -\operatorname{sech}(2x) \tanh(2x) \cdot 2$$

$$29. \frac{dy}{dx} = x^2 \cdot 2 \cosh(3x) \cdot \sinh(3x) \cdot 3 + \cosh^2(3x) \cdot 2x$$

$$33. \ln|1 + \cosh x| + C$$

$$34. -\frac{(\coth x)^3}{3} + C$$

$$37. \approx 856.034$$

$$75. \text{(a) } 1 \quad \text{(f) } \frac{40}{9}$$