

READING ASSIGNMENT 06  
§6.5 (Work and Energy)

NAME: \_\_\_\_\_  
Due 9 July 2018

LEARNING OBJECTIVES

By the end of this lesson, you will be able to:

- Setup and evaluate integrals to compute work done against gravity.
- Estimate work done against gravity using a Riemann sum.

REVIEW

- Again, similar triangles and basic geometry. You may also wish to review the chapter of your physics class that introduced work.

READING

- Read section 6.5 (Work and Energy)

QUESTIONS

(1) Why is an integral needed to compute the work performed in building a tank, but not to compute the work performed in lifting up the (full) tank?

(2) What does it mean when the integral used to compute work gives a negative answer?