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Math 121 Calculus  
Quiz on integrals  
January 2015

1. [3] Suppose that  $\int_4^5 f(x) dx = 7$  and  $\int_4^5 g(x) dx = 3$ . Determine the value of the integral  $\int_4^5 (2f(x) - 4g(x)) dx$

2. [3] Evaluate the integral  $\int_{-1}^1 (3x^2 + 5x - 6) dx$ .

3. [3] The graph of an odd function  $f$  is shown below. (Recall that a function is *odd* if  $f(-x) = -f(x)$  for all  $x$ .) Determine the value of the integral  $\int_{-1}^1 f(x) dx$ . Explain your answer in a sentence.

