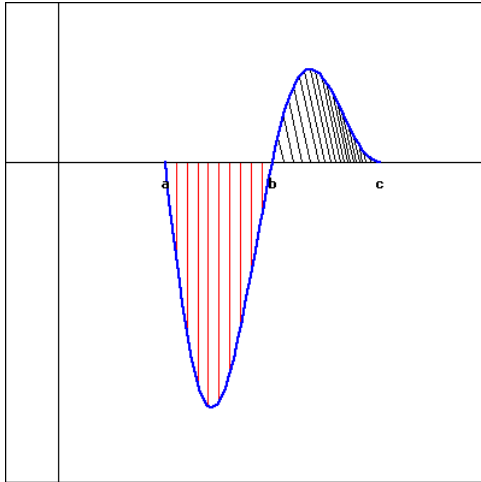


NAME: _____

MTH 132, MSU, 11/30/2018.

Quiz 11

1. Use the following figure, which shows a graph of $f(x)$ to find each of the indicated integrals. The first area (with vertical, red shading) is 33 and the second (with oblique, black shading) is 11.



(a). $\int_a^b f(x) dx =$

(b). $\int_b^c f(x) dx =$

(c). $\int_a^c f(x) dx =$

(d). $\int_a^c |f(x)| dx =$

2. Find the integral:

$$\int x^3 \cos(5x^4) dx.$$