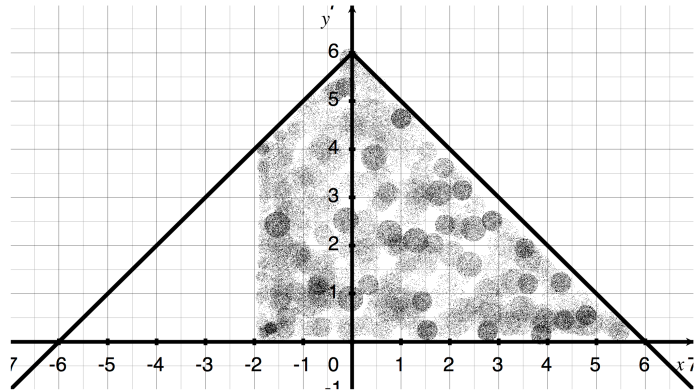


Quiz 1 (PM)

Show *all* your work. Reasonable supporting work must be shown to earn credit. There are *two* sides to this quiz.

1. Consider the graph below for the following questions.

(a) [1] Find the rule/expression of the function



(b) [3] (WebHW2 #1) Set up a definite integral that yields the area of the shaded region.

(c) [2] (§5.3 #52a) Compute/find the definite integral that you set up above.

2. [4] (definiteActivity #3) Given $\int_2^4 g(x) dx = 25$, $\int_2^4 x dx = 6$, and $\int_0^2 x dx = 2$, find:

(a) $\int_2^4 2g(x) - x dx$

(b) $\int_0^4 x dx$