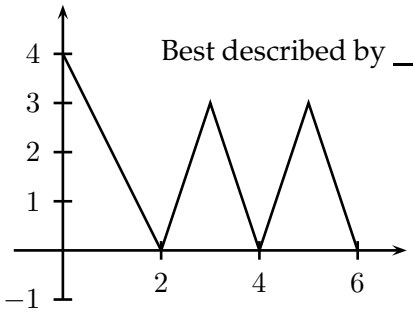
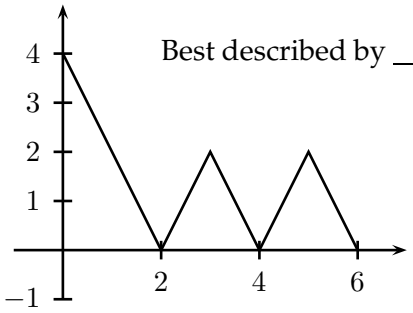
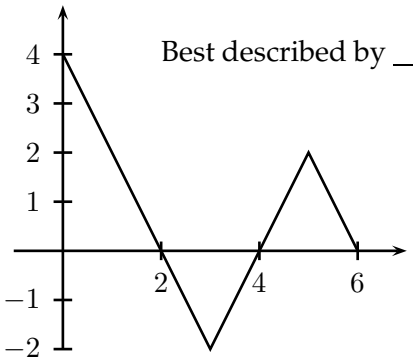
2. (2 points each) Next to each of the functions graphed on the left below, identify which one of the inequalities on the right below best describes the situation. Here, L is the left Riemann sum for $\int_0^6 f(x)\,dx$ using three equal subdivisions, and R is the right Riemann sum using three equal subdivisions. [*You may find it helpful to compute L, R, and the integral for each graph.*]



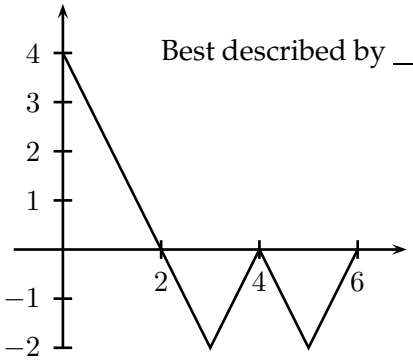
Best described by ____



Best described by ____



Best described by ____



Best described by ____

(a) $L < R < \int_0^6 f(x)\,dx$

(b) $L = R < \int_0^6 f(x)\,dx$

(c) $L < R = \int_0^6 f(x)\,dx$

(d) $L < \int_0^6 f(x)\,dx < R$

(e) $L = \int_0^6 f(x)\,dx < R$

(f) $R < L < \int_0^6 f(x)\,dx$

(g) $R < L = \int_0^6 f(x)\,dx$

(h) $R < \int_0^6 f(x)\,dx < L$

(i) $R = \int_0^6 f(x)\,dx < L$