Signed Area Worksheet

1. Consider the function $f$ whose graph is given.

Evaluate each of the following integrals using the graph of $f$.

(a) $\int_{-3}^{0} f(t) \, dt$
(b) $\int_{-1}^{1} f(t) \, dt$
(c) $\int_{0}^{3} f(t) \, dt$
(d) $\int_{3}^{6} f(t) \, dt$
(e) $\int_{1}^{5} f(t) \, dt$
(f) $\int_{-2}^{7} f(t) \, dt$
(g) $\int_{5}^{1} f(t) \, dt$
(h) $\int_{4}^{1} f(t) \, dt$

2. Consider the function $g$ whose graph is given.

Evaluate each of the following integrals using the graph of $g$.

(a) $\int_{-3}^{2} g(x) \, dx$
(b) $\int_{-3}^{0} g(x) \, dx$
(c) $\int_{-1}^{3} g(x) \, dx$
(d) $\int_{3}^{6} g(x) \, dx$
(e) $\int_{6}^{7} g(x) \, dx$
(f) $\int_{7}^{6} g(x) \, dx$
(g) $\int_{1}^{-3} g(x) \, dx$
(h) $\int_{6}^{3} g(x) \, dx$