$$\int_{0}^{5} f(x)dx = -2, \qquad \qquad \int_{5}^{10} g(x)dx = 2, \qquad \qquad \int_{0}^{5} g(x)dx = 15,$$
$$f(0) = 7, \qquad \qquad h(x) = g(x - 5)$$

For parts (a)-(f), find the numerical value indicated. If insufficient information is given to answer the question indicate "Insufficient information".

(a)
$$\int_0^5 f(0)g(x)dx = f(0)\int_0^5 g(x)dx = 7(15) = 105$$

(b)
$$f(10) = \int_0^{10} g(x)dx + f(0) = \int_0^5 g(x)dx + \int_5^{10} g(x)dx + f(0) = 15 + 2 + 7 = 24$$

(c)
$$\int_0^5 |f(x)| dx =$$
Insufficient Information

(d)
$$\int_0^5 \left(3f(0) - \frac{g(x)}{5}\right) dx = 3f(0) \int_0^5 dx - \frac{1}{5} \int_0^5 g(x) dx = 3(7)(5) - \frac{1}{5}(15) = 102$$

(e)
$$\int_0^5 \frac{1}{g(x)} dx$$
 = Insufficient Information

(f)
$$\int_{5}^{10} h(x)dx = \int_{0}^{5} g(x)dx = 15$$