- (2.) (12 points) Given the following:
 - f is an **even** function such that $\int_0^1 f(x) dx = 5$,
 - g is an **odd** function such that $\int_0^1 g(x) dx = 7$.

Compute the following definite integrals. If you do not have enough information for a given computation, write "not enough information."

(a)
$$\int_0^1 (f(x) - g(x)) dx = -2$$

(b)
$$\int_0^1 3g(x) dx = 21$$

(c)
$$\int_0^1 f(x) \cdot g(x) dx = \text{not enough information}$$

(d)
$$\int_{3}^{4} f(x-3) dx = 5$$

(e)
$$\int_{-1}^{1} (f(x) + g(x)) dx = 10$$

(f)
$$\int_0^1 f(g(x)) dx = \text{not enough information}$$