

(1) Find the area of the region between the graphs of the functions

$$f(x) = x^2 - 4x + 10, \quad g(x) = 4x - x^2, \quad 1 \leq x \leq 3.$$

(2) Find the area between the graphs of $f(x) = x^2 - 5x - 7$ and $g(x) = x - 12$ over $[-2, 5]$.

(3) Find the area of the region bounded by the graphs of $y = 8/x^2$, $y = 8x$, and $y = x$.

(4) Calculate the area enclosed by the graphs of $h(y) = y^2 - 1$ and $g(y) = y^2 - \frac{1}{8}y^4 + 1$.