

1. The function f is given by

$$f(x) = x^2 - 2x + 6, \quad x \geq 0$$

(a) Find the range of f .

(3)

The function g is given by

$$g(x) = 3 + \sqrt{x+4}, \quad x \geq 2$$

(b) Find $gf(x)$.

(2)

(c) Find the domain and range of gf .

(3)