Solving modulus problems
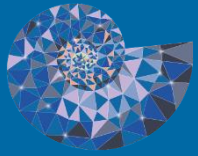
Let:

$$f(x) = 2\,|\,x - 4\,|+1, \quad g(x) = 7 - x \text{ and } h(x) = -x^2 + 10x - 22$$

a Find all of the possible values for x such that $f(x) = g(x)$.

b Find all of the possible values for x such that $f(x) = h(x)$.

Let:

$$f(x) = -4\,|\,x\,|+5 \text{ and } g(x) = \frac{1}{2}x + 3$$

Find all of the possible values for x such that $f(x) = g(x)$.

Given that:

$$f(x) = 2\,|\,x\,|+3$$

state the range of f.