

(1) Draw the following functions on different Cartesian planes:

(a) $2y = 2x^2 - 6x + 4$

(b) $y = x^2 + 4x + 1$

(c) $y = -x^2 - 2x - 3$

(2) (a) Draw on the same Cartesian plane:

$$p(x) = x^2 - 2x \quad \text{and} \quad q(x) = 4 - x^2$$

(b) Use the graph in (a) and determine the following:

(i) The domain of p .

(ii) The range of q .

(iii) Min/Max value of q .

(iv) x if $p(x) = q(x)$.



