Ujian 1

1. Tentukan sama ada ungkapan yang diberi adalah ungkapan kuadratik ataupun bukan, Jika bukan, nyatakan justifikasi (alas an).

   i. $-2x^2 + 3$
   ii. $x^4 - 5x^2 + 3$
   iii. $x^2 - 7x$
   iv. $-2x^{-1} - x + 5$

2. Tentukan nilai a,b dan c bagi ungkapan kuadratik di bawah

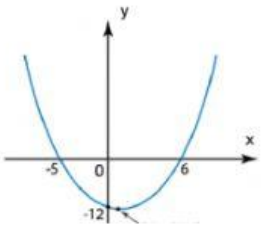
   i. $f(x) = 2x^2 + 3x - 5$
   ii. $g(x) = -2x^2 - 5x + 3$
   iii. $f(x) = -4x^2 + 2$
   iv. $g(x) = x^2 + 2x$

3. Tentukan bentuk graf fungsi kuadratik yang berikut sama ada berbentuk parabola $\cup$ atau $\cap$.

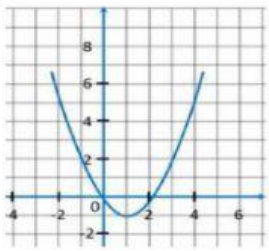
   v. $f(x) = 2x^2 + 3x - 5$
   vi. $g(x) = -2x^2 - 5x + 3$
   vii. $f(x) = -4x^2 + 2$
   viii. $g(x) = x^2 + 2x$

4. Bagi graf fungsi kuadratik di bawah, tentukan **julat nilai a** dan nyatakan sama ada graf tersebut mempunyai **titik maksimum** atau **titik minimum**.

(a)




(b)

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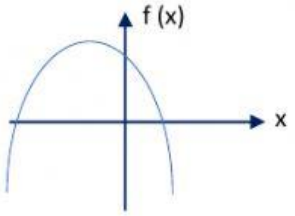
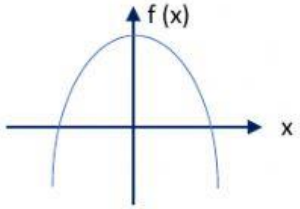
(c)D

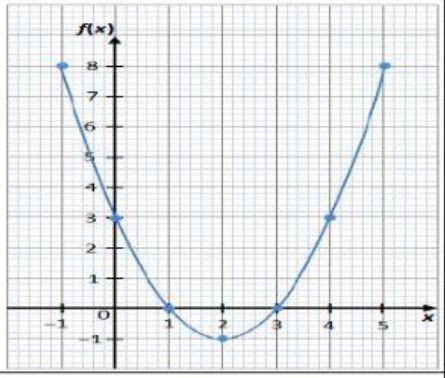



(d)

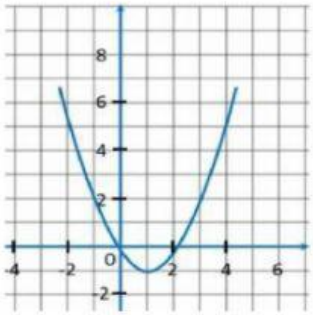



5. Tentukan titik minimum atau titik maksimum bagi graf fungsi kuadratik di bawah dan nyatakan koordinatnya

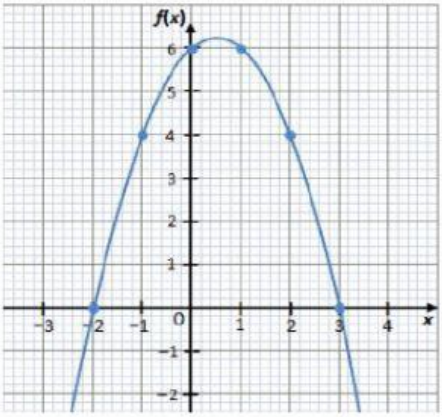
(a)



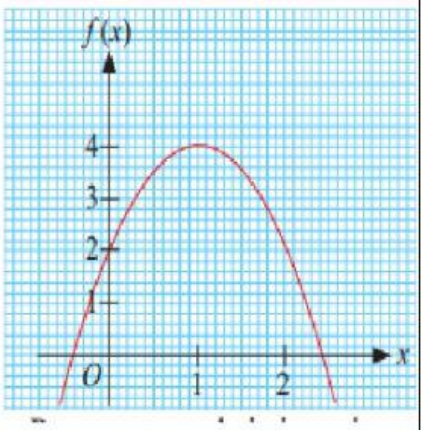

(b)



(c)




(d)

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