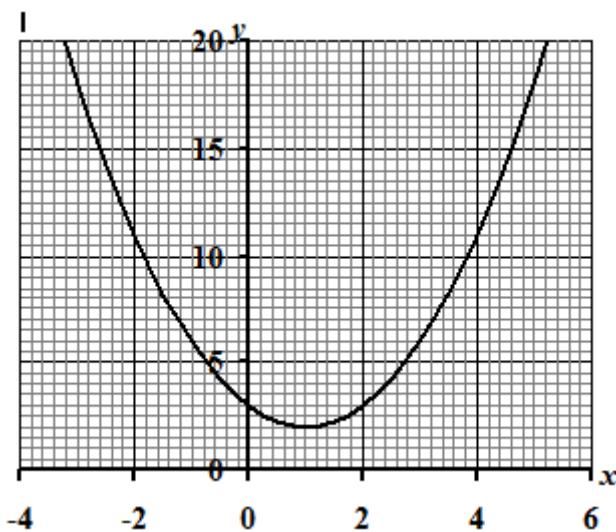
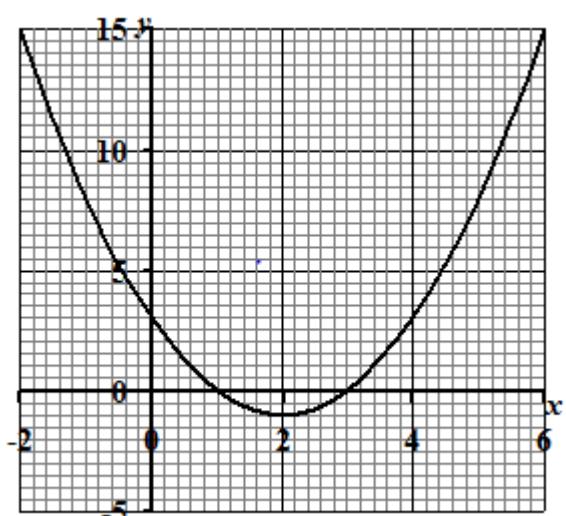


## Completing the square: cards



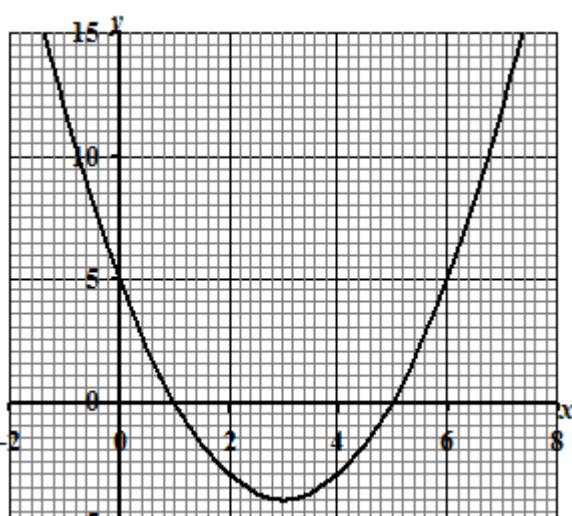
$$y = x^2 - 2x + 3$$

$$y = (x - 1)^2 + 2$$



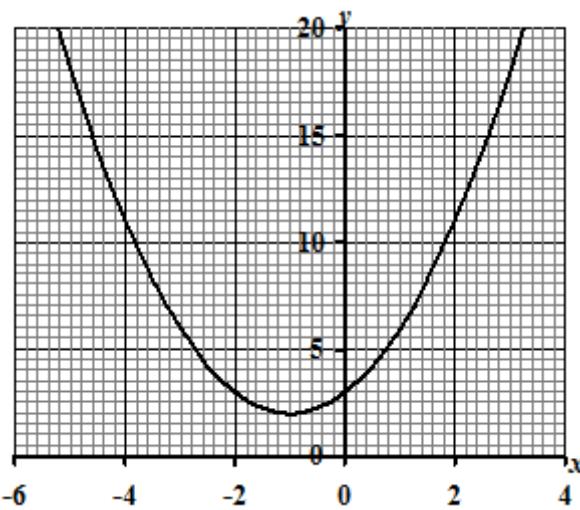
$$y = x^2 - 4x + 3$$

$$y = (x - 2)^2 - 1$$



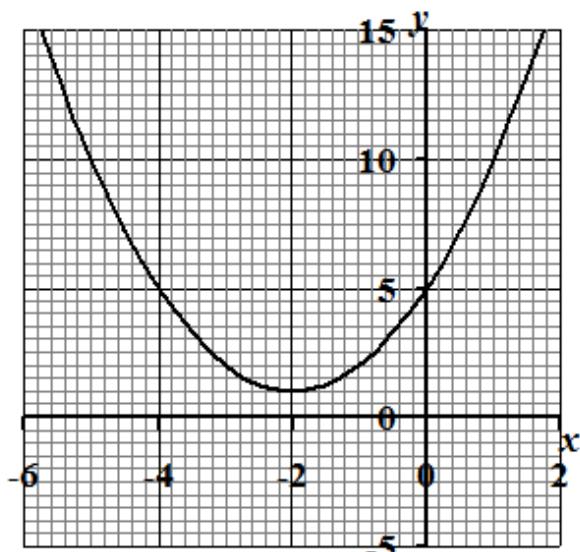
$$y = x^2 - 6x + 5$$

$$y = (x - 3)^2 - 4$$



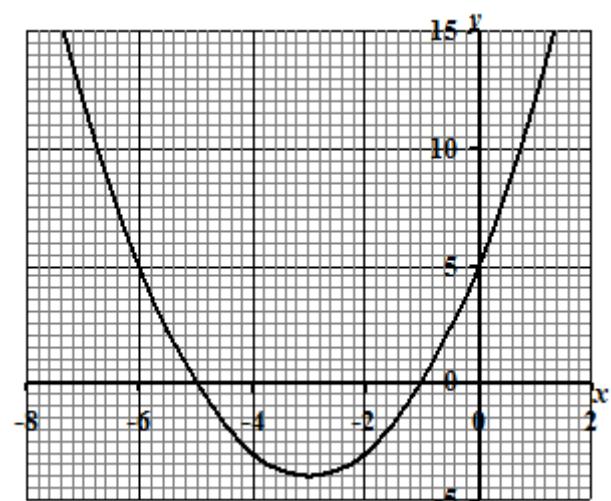
$$y = x^2 + 2x + 3$$

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



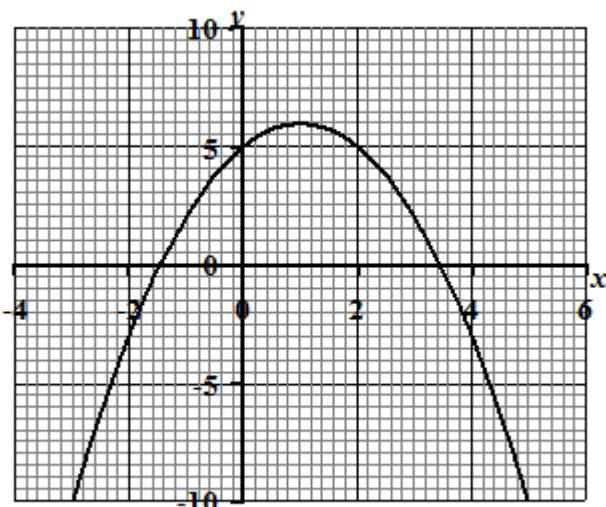
$$y = x^2 + 4x + 5$$

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



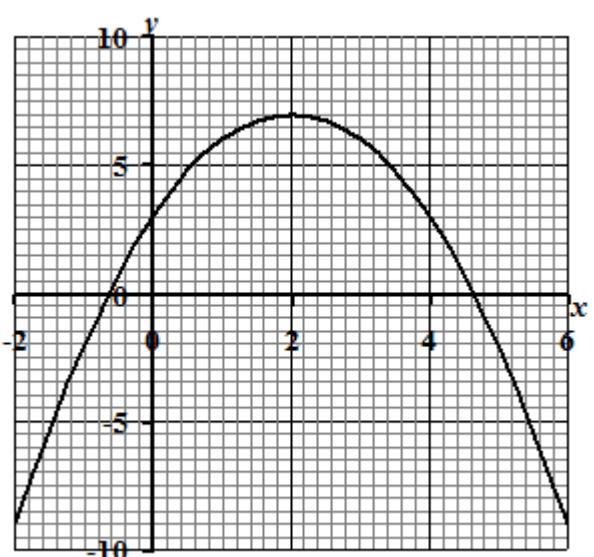
$$y = x^2 + 6x + 5$$

$$y = (x+3)^2 - 4$$



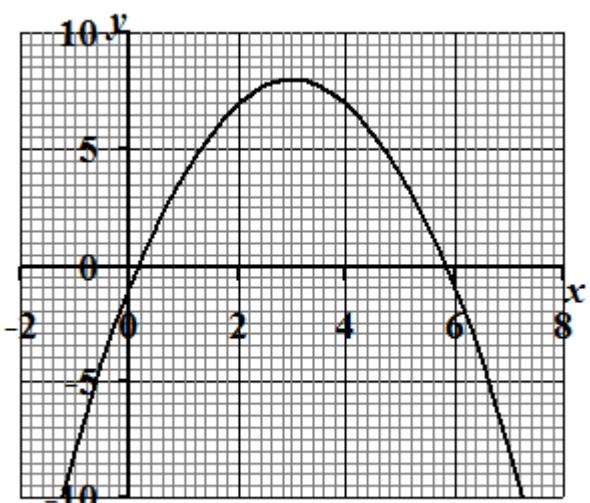
$$y = 5 + 2x - x^2$$

$$y = 6 - (x - 1)^2$$



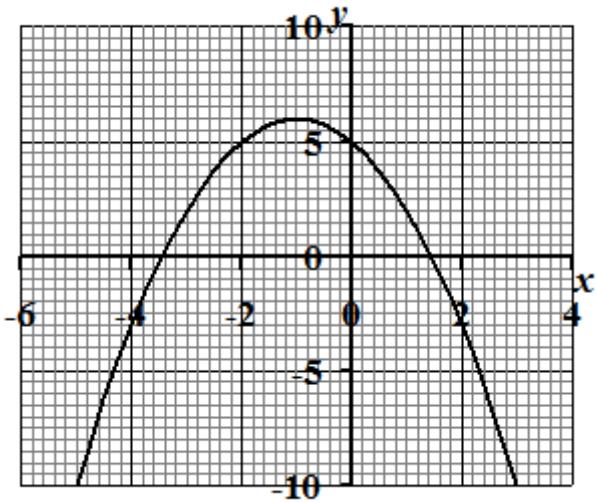
$$y = 3 + 4x - x^2$$

$$y = 7 - (x - 2)^2$$



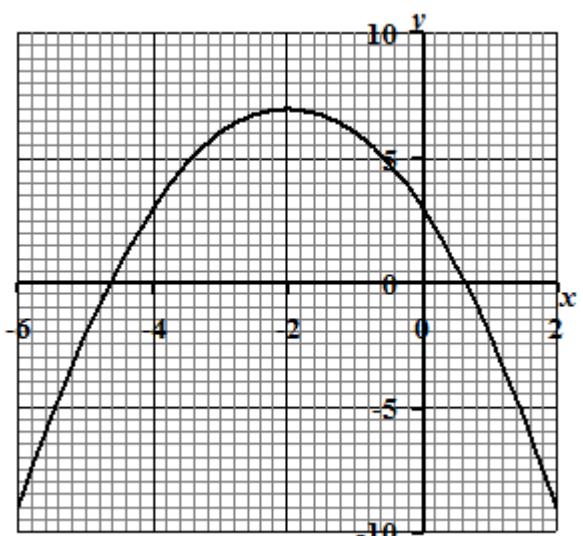
$$y = -1 + 6x - x^2$$

$$y = 8 - (x - 3)^2$$



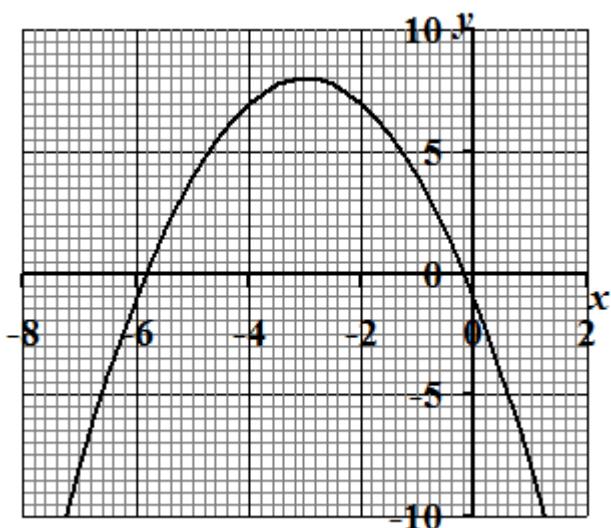
$$y = 5 - 2x - x^2$$

$$y = 6 - (x + 1)^2$$



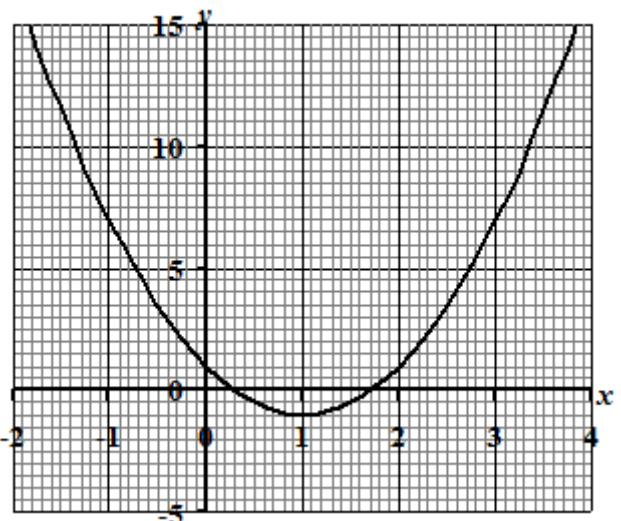
$$y = 3 - 4x - x^2$$

$$y = 7 - (x + 2)^2$$



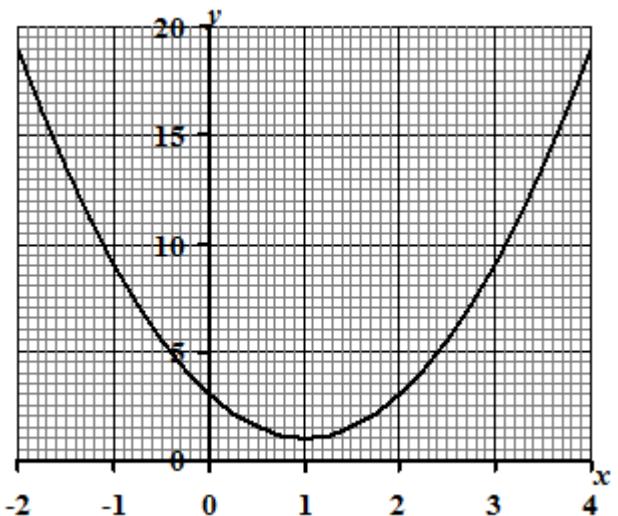
$$y = -1 - 6x - x^2$$

$$y = 8 - (x + 3)^2$$



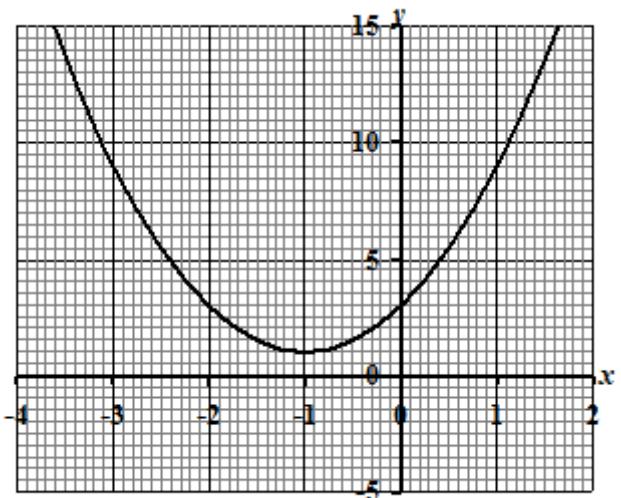
$$y = 2x^2 - 4x + 1$$

$$y = 2(x-1)^2 - 1$$



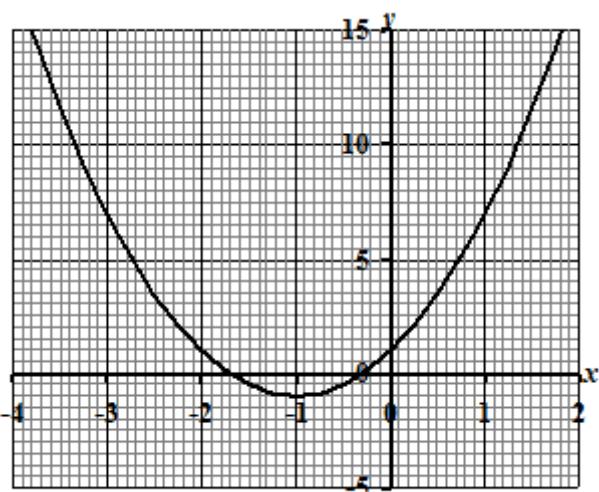
$$y = 2x^2 - 4x + 3$$

$$y = 2(x-1)^2 + 1$$



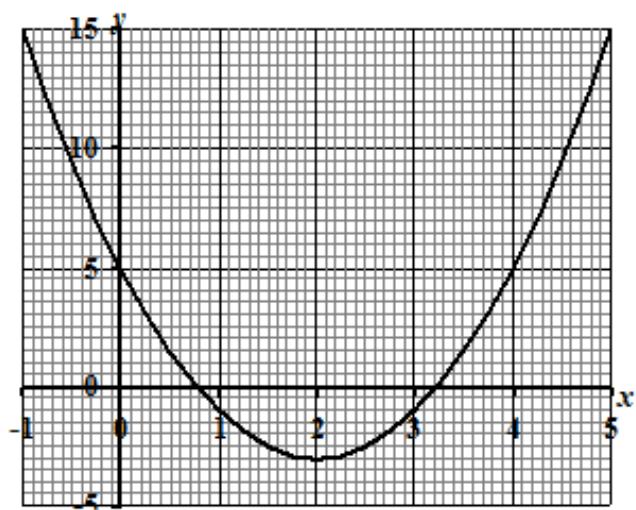
$$y = 2x^2 + 4x + 3$$

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



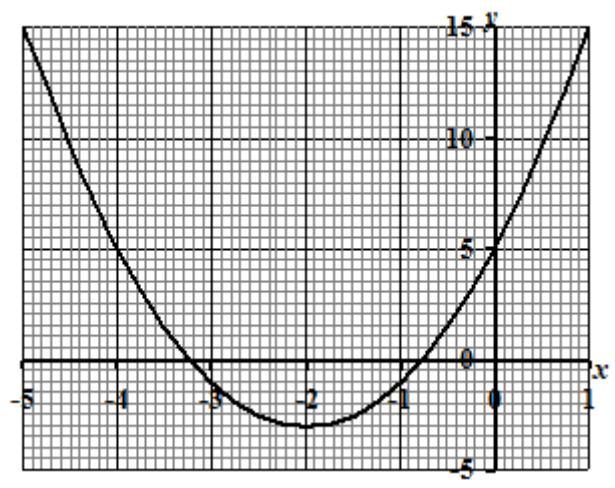
$$y = 2x^2 + 4x + 1$$

$$y = 2(x+1)^2 - 1$$



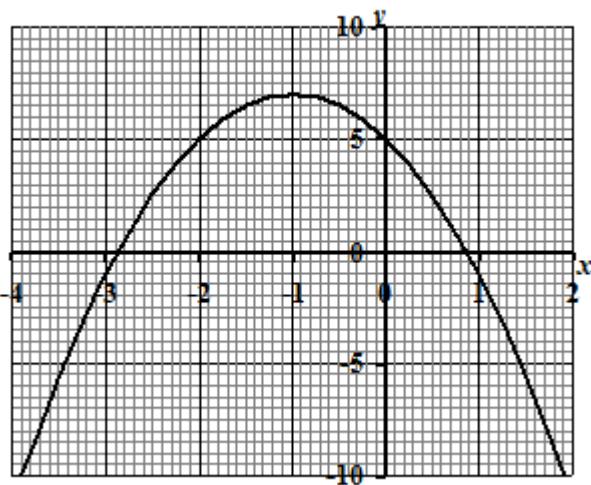
$$y = 2x^2 - 8x + 5$$

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



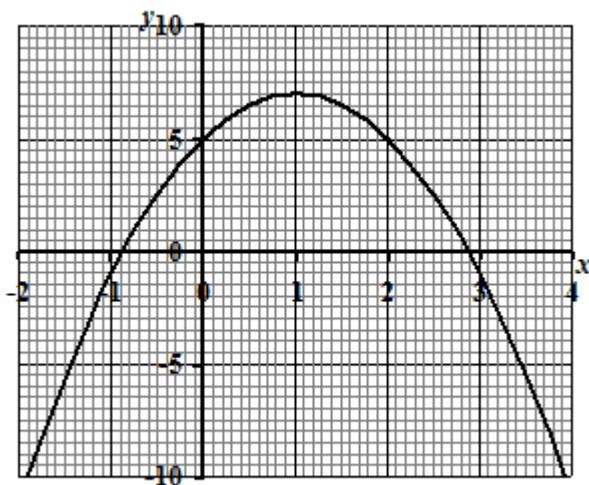
$$y = 2x^2 + 8x + 5$$

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



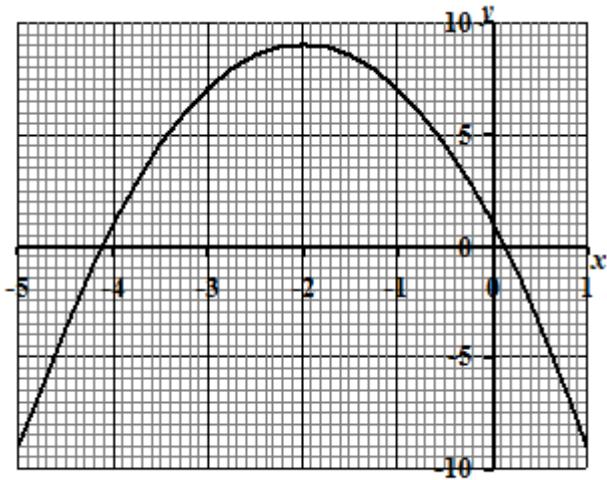
$$y = 5 - 4x - 2x^2$$

$$y = 7 - 2(x+1)^2$$



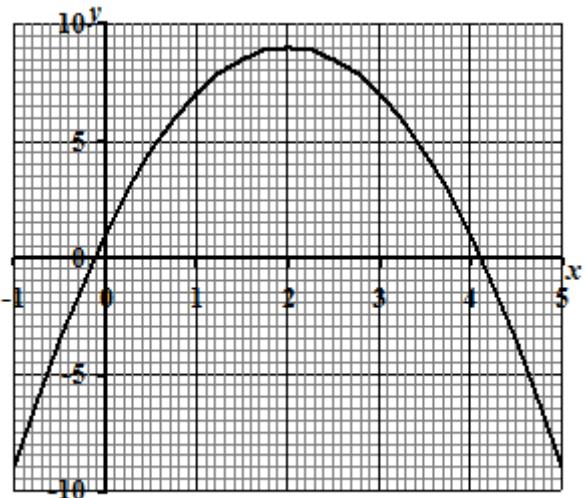
$$y = 5 + 4x - 2x^2$$

$$y = 7 - 2(x-1)^2$$



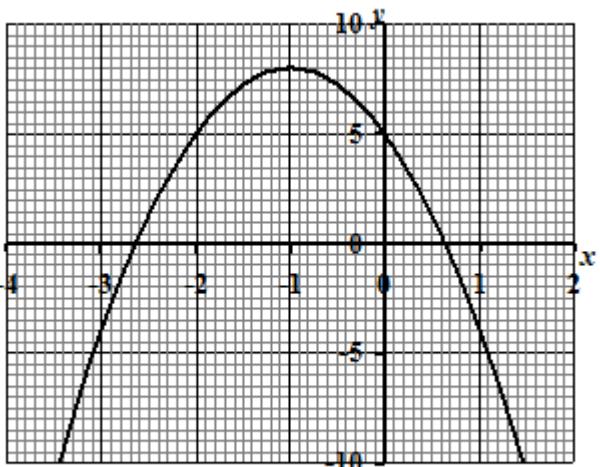
$$y = 1 - 8x - 2x^2$$

$$y = 9 - 2(x+2)^2$$



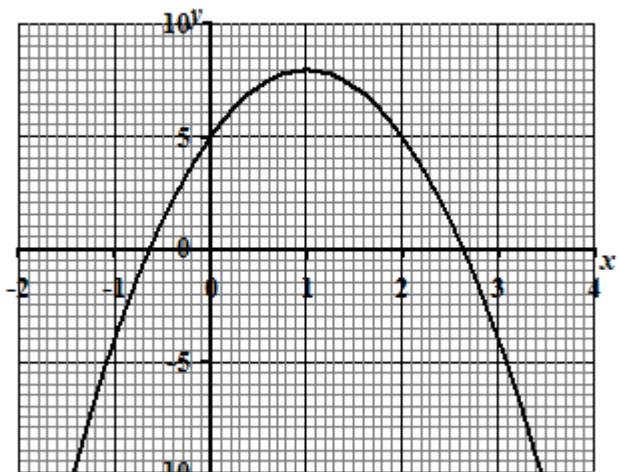
$$y = 1 + 8x - 2x^2$$

$$y = 9 - 2(x - 2)^2$$



$$y = 5 - 6x - 3x^2$$

$$y = 8 - 3(x + 1)^2$$



$$y = 5 + 6x - 3x^2$$

$$y = 8 - 3(x - 1)^2$$