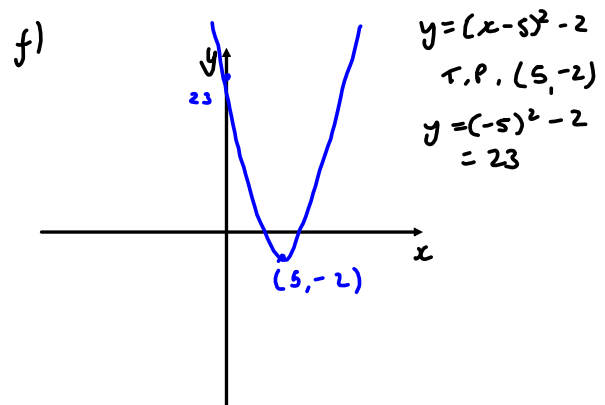
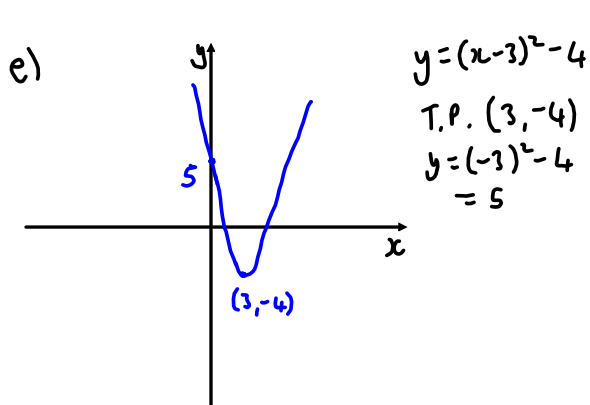
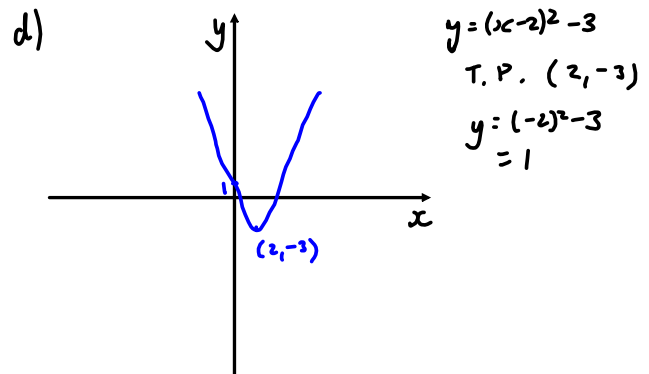
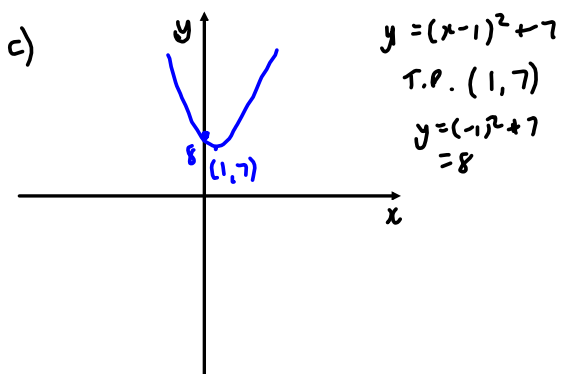
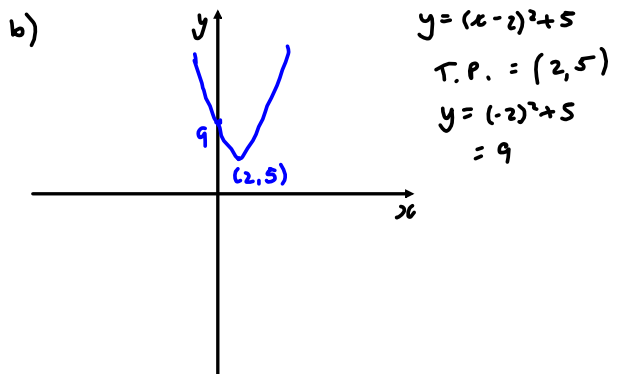
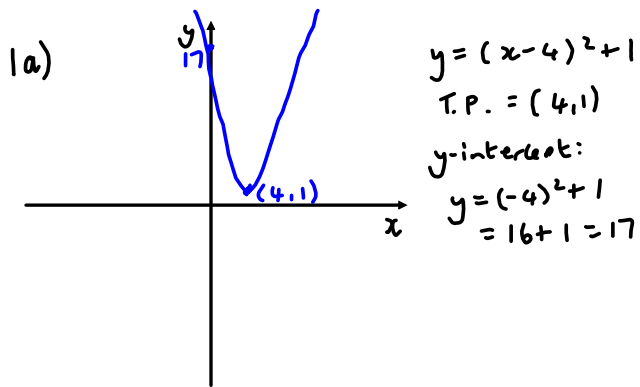
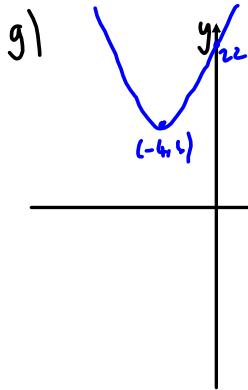


Quadratics and completed square form p.10

$$\begin{array}{llll} 3a) y = (x-2)^2 + 1 & b) y = (x-1)^2 + 6 & c) y = (x-4)^2 & d) y = (x-3)^2 - 4 \\ e) y = x^2 - 5 & f) y = (x+1)^2 + 3 & g) y = (x+2)^2 - 4 & h) y = (x+6)^2 \\ i) y = (x-4)^2 + 20 & j) y = (x-10)^2 - 2 & k) y = (x-25)^2 + 10 & l) y = (x+30)^2 + 5 \\ m) y = (x-1)^2 - 1 & n) y = x^2 + 6 & & \end{array}$$

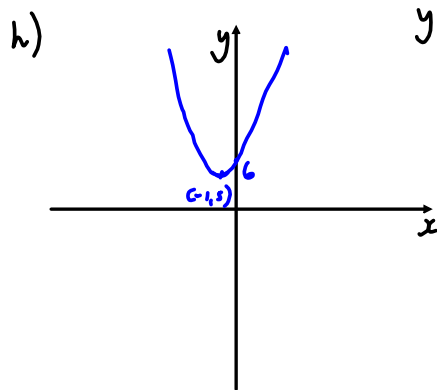




$$y = (x+4)^2 + 6$$

T.P. $(-4, 6)$

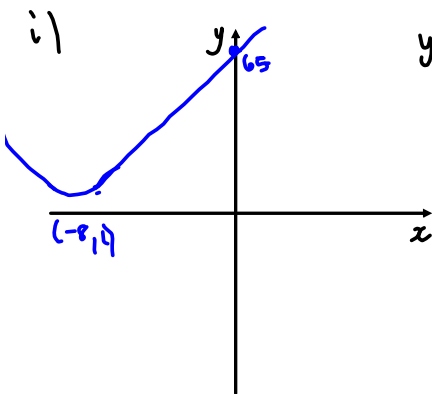
$$y = 4^2 + 6 = 22$$



$$y = (x+1)^2 + 5$$

T.P. $(-1, 5)$

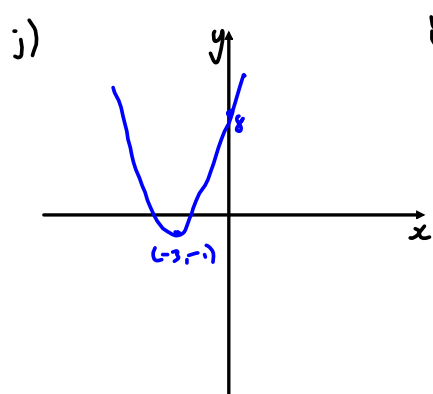
$$y = 1^2 + 5 = 6$$



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

T.P. $(-8, 1)$

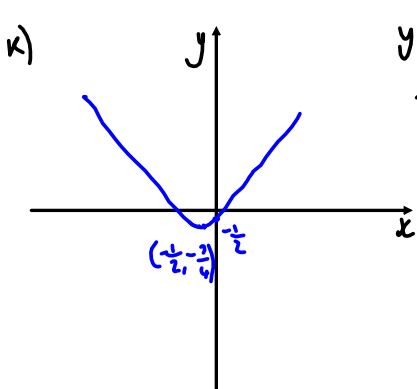
$$y = 8^2 + 1 = 65$$



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

T.P. $(-3, -1)$

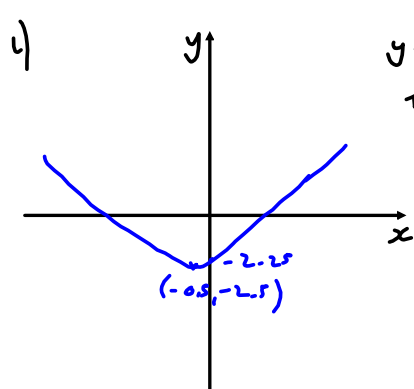
$$y = 3^2 - 1 = 8$$



$$y = (x + \frac{1}{2})^2 - \frac{3}{4}$$

T.P. $(-\frac{1}{2}, -\frac{3}{4})$

$$y = \frac{1}{4} - \frac{3}{4} = -\frac{1}{2}$$

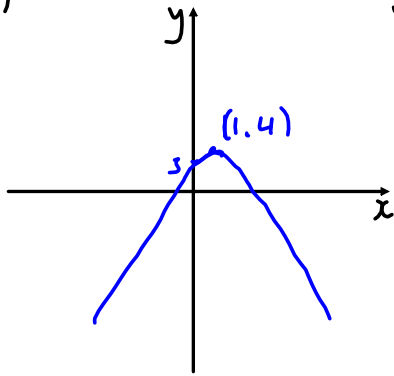


$$y = (x+0.5)^2 - 2.5$$

T.P. $(-0.5, -2.5)$

$$y = 0.25 - 2.5 = -2.25$$

m)



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

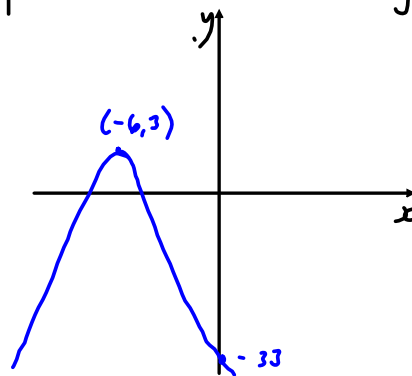
T.P. (1, 4)

$$y = -(-1)^2 + 4$$

$$= -1 + 4$$

$$= 3$$

n)



$$y = -(x+6)^2 + 3$$

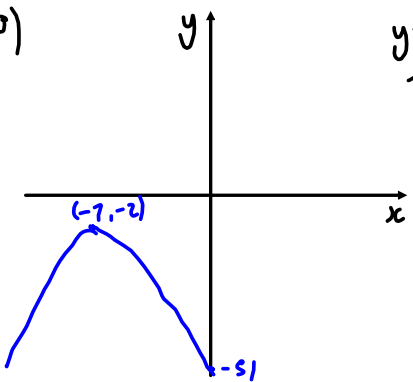
T.P. (-6, 3)

$$y = -(6)^2 + 3$$

$$= -36 + 3$$

$$= -33$$

o)



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

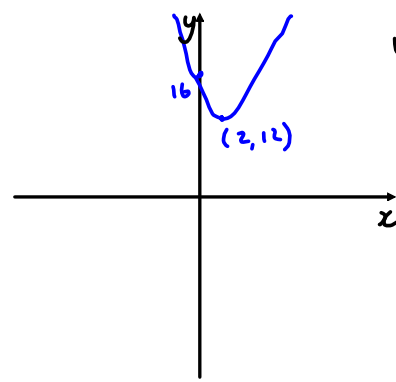
T.P. (-7, -2)

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

$$= -49 - 2$$

$$= -51$$

p)



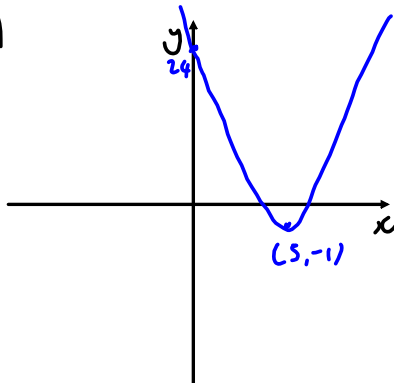
$$y = (2-x)^2 + 12$$

T.P. (2, 12)

$$y = 2^2 + 12$$

$$= 16$$

q)



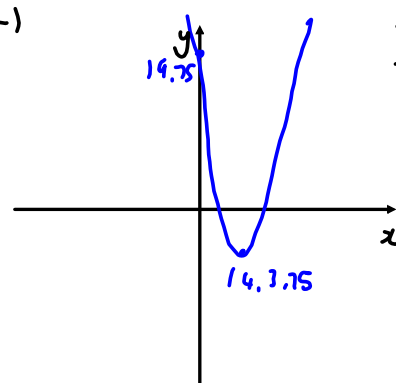
$$y = (5-x)^2 - 1$$

T.P. (5, -1)

$$y = 5^2 - 1$$

$$= 24$$

r)



$$y = (4-x)^2 + 3.75$$

T.P. (4, 3.75)

$$y = 4^2 + 3.75$$

$$= 19.75$$