

5. Find the point on $y = f(x)$ which is moved to $(5, -2)$ under the transformation $g(x) = 2 - 5f(x+4)$

$$\boxed{\left(9, \frac{4}{5}\right)}$$

$X-4$	X	y	$-5y+2$
5	9	$\frac{4}{5}$	-2

$$S = x - 4$$

$$x = 9$$

$$-2 = -5y + 2$$

$$-4 = -5y$$

$$y = \frac{4}{5}$$

List. Transformations

Ref over x-axis

V.D BOFO 5

V.T up 2

H.T left 4

6. Given $f(x) = -2x^2 + 8x$

Draw the graph of $f(x)$ and on the same set of axes the graph of $-f(|x|)$

$$f(x) = -2x^2 + 8x$$

$$= -2x(x-4)$$

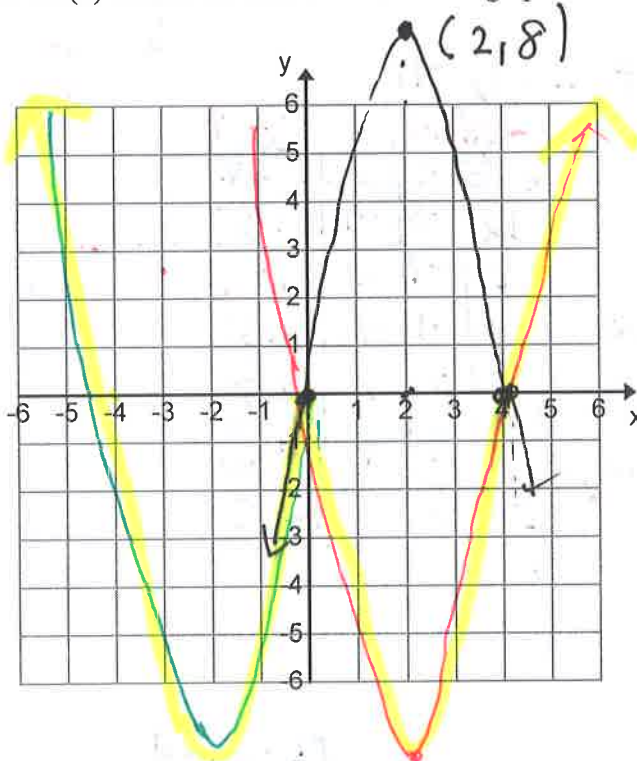
$$x\text{-int} : \boxed{0, 4}$$

$$f(2) = -2(2)^2 + 8(2)$$

$$= -8 + 16$$

$$= 8$$

$$\text{Vertex} : (2, 8)$$



$$(2, -8)$$