

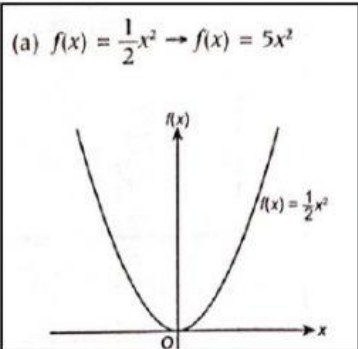
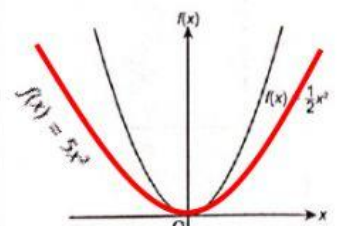
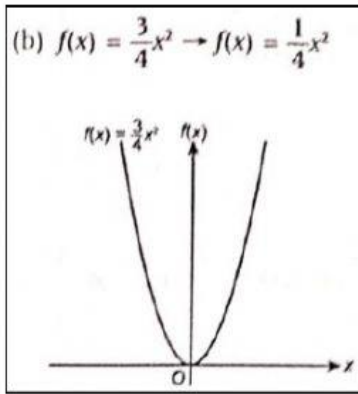
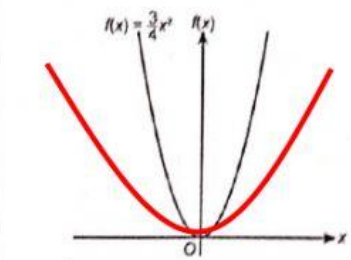
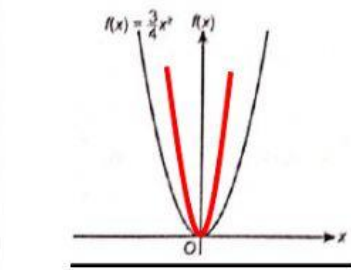
Nama Murid :

Tingkatan :

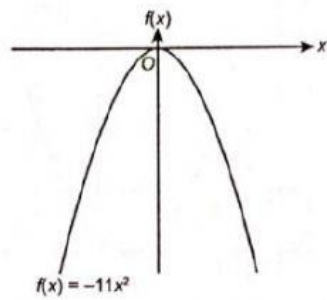


Ungkapan dan Persamaan Kuadratik

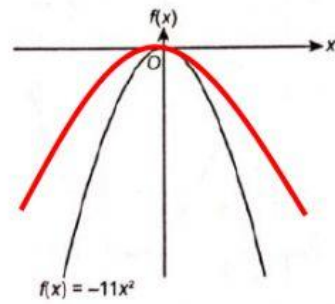
1. Persamaan kuadratik : $ax^2 + bx + c$. Padankan kesan perubahan nilai a ke atas graf fungsi kuadratik.

(a) $f(x) = \frac{1}{2}x^2 \rightarrow f(x) = 5x^2$ 	$f(x) = \frac{1}{2}x^2 \rightarrow f(x) = 5x^2$ 
(b) $f(x) = \frac{3}{4}x^2 \rightarrow f(x) = \frac{1}{4}x^2$ 	$f(x) = \frac{3}{4}x^2 \rightarrow f(x) = \frac{1}{4}x^2$ 
	$f(x) = \frac{3}{4}x^2 \rightarrow f(x) = \frac{1}{4}x^2$ 

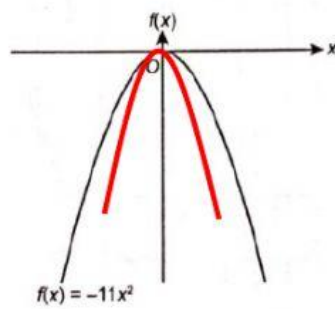
(c) $f(x) = -11x^2 \rightarrow f(x) = -6x^2$



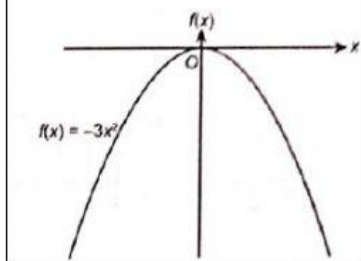
$f(x) = -11x^2 \rightarrow f(x) = -6x^2$



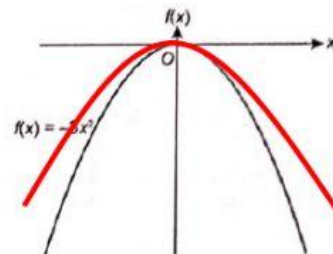
$f(x) = -11x^2 \rightarrow f(x) = -6x^2$



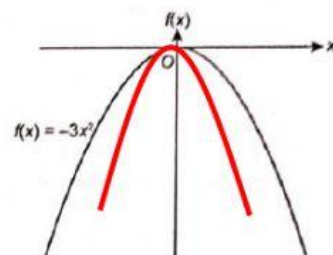
(d) $f(x) = -3x^2 \rightarrow f(x) = -7x^2$



$f(x) = -3x^2 \rightarrow f(x) = -7x^2$

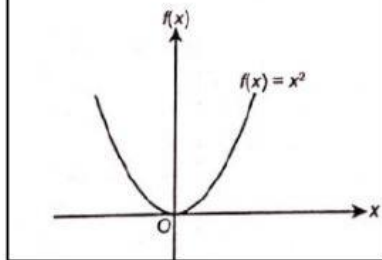


1) $f(x) = -3x^2 \rightarrow f(x) = -7x^2$

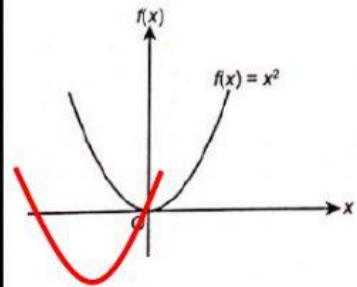


2. Persamaan kuadratik : $ax^2 + bx + c$. Padankan kesan perubahan nilai b ke atas graf fungsi kuadratik.

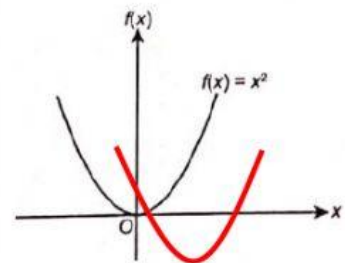
(a) $f(x) = x^2 \rightarrow f(x) = x^2 - 6x$



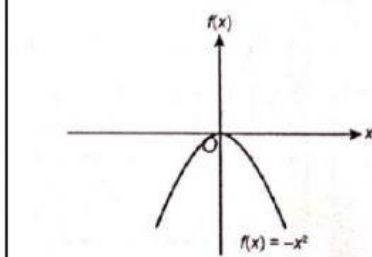
$f(x) = x^2 \rightarrow f(x) = x^2 - 6x$



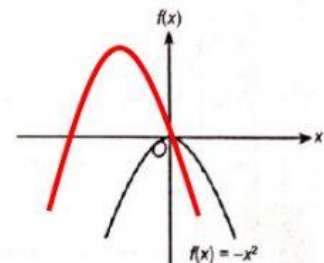
$f(x) = x^2 \rightarrow f(x) = x^2 - 6x$



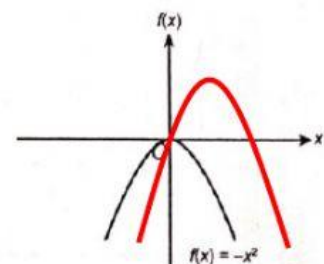
(b) $f(x) = -x^2 \rightarrow f(x) = -x^2 - 4x$



$f(x) = -x^2 \rightarrow f(x) = -x^2 - 4x$



$f(x) = -x^2 \rightarrow f(x) = -x^2 - 4x$



3. Persamaan kuadrat : $ax^2 + bx + c$. Hitung nilai c dalam setiap fungsi kuadrat berikut yang melalui titik P .

(a) $f(x) = -2x^2 + 6x + c$

$P(3, -6)$

$$\boxed{} = -2 \boxed{}^2 + 6 \boxed{} + c$$

$$c = \boxed{}$$

(b) $f(x) = x^2 - 3x + c$

$P(0, 7)$

$$\boxed{} = \boxed{}^2 - 3 \boxed{} + c$$

$$c = \boxed{}$$

(c) $f(x) = -2x^2 + 5x - c$

$P(4, -5)$

$$\boxed{} = -2 \boxed{}^2 + 5 \boxed{} - c$$

$$c = \boxed{}$$

(d) $f(x) = 3x^2 + c$

$P(2, -9)$

$$\boxed{} = 3 \boxed{}^2 + c$$

$$c = \boxed{}$$