

# SUMMARY OF TRANSFORMATION TECHNI.

General

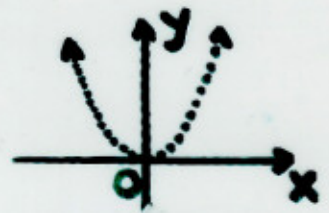
o  $y = f(x)$

Specific

$y = x^2$

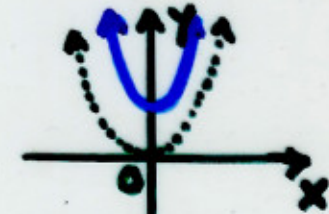
I  $y = f(x) + a$

$y = x^2 + 2$



II  $y = f(x) - a$

$y = x^2 - 2$



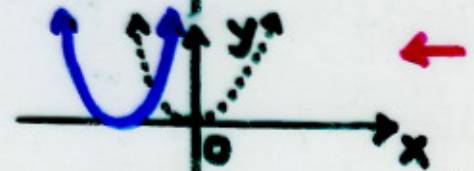
III  $y = f(x+a)$

$y = (x+2)^2$



IV  $y = f(x-a)$

$y = (x-2)^2$



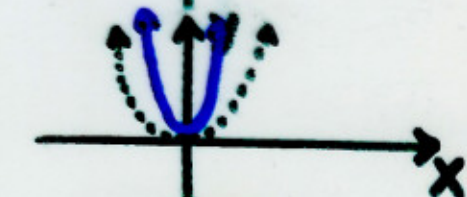
V  $y = a \cdot f(x)$   
where  $a > 1$

$y = 2 \cdot x^2$



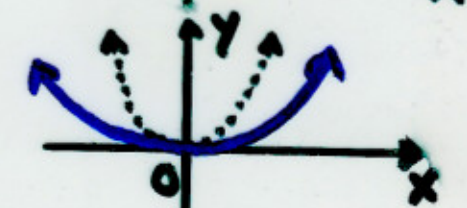
VI  $y = a \cdot f(x)$   
where  $0 < a < 1$

$y = \frac{1}{2} \cdot x^2$



VII  $y = -f(x)$

$y = -x^2$



Reflection on x-axis.