



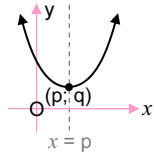
(General) Summary of the effects of the parameters



Parabola: $y = a(x - p)^2 + q$ & $y = ax^2 + bx + c$

$$p > 0$$

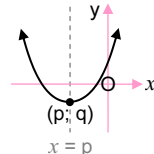
$$q > 0$$



$$a > 0$$

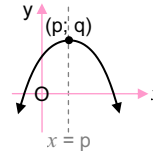
$$p < 0$$

$$q < 0$$



$$p > 0$$

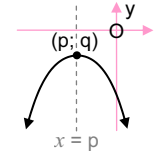
$$q > 0$$



$$a < 0$$

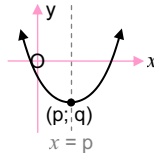
$$p < 0$$

$$q < 0$$



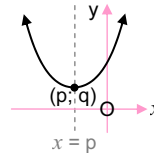
$$p > 0$$

$$q < 0$$



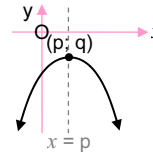
$$p < 0$$

$$q > 0$$



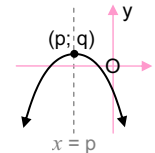
$$p > 0$$

$$q < 0$$



$$p < 0$$

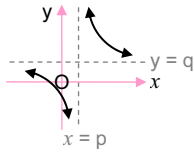
$$q > 0$$



Hyperbola: $y = \frac{a}{x - p} + q$

$$p > 0$$

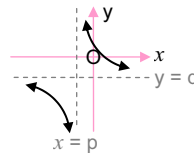
$$q > 0$$



$$a > 0$$

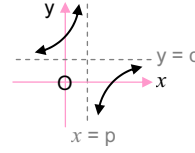
$$p < 0$$

$$q < 0$$



$$p > 0$$

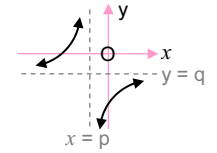
$$q > 0$$



$$a < 0$$

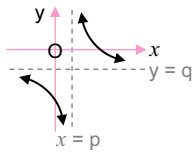
$$p < 0$$

$$q < 0$$



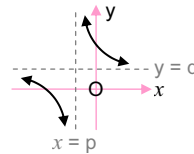
$$p > 0$$

$$q < 0$$



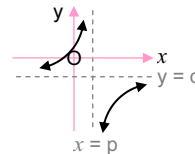
$$p < 0$$

$$q > 0$$



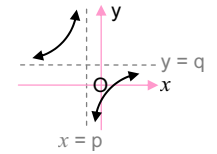
$$p > 0$$

$$q < 0$$



$$p < 0$$

$$q > 0$$



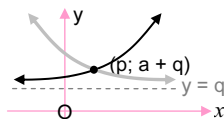
$$b > 1:$$

Exponential Graph: $y = ab^{x-p} + q$

$$0 < b < 1:$$

$$p > 0$$

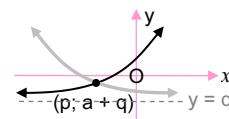
$$q > 0$$



$$a > 0$$

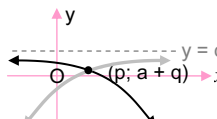
$$p < 0$$

$$q < 0$$



$$p > 0$$

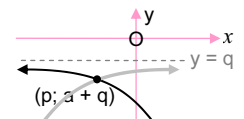
$$q > 0$$



$$a < 0$$

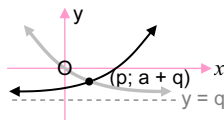
$$p < 0$$

$$q < 0$$



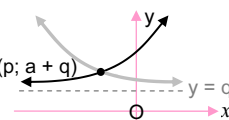
$$p > 0$$

$$q < 0$$



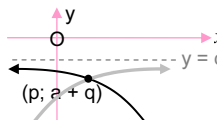
$$p < 0$$

$$q > 0$$



$$p > 0$$

$$q < 0$$



$$p < 0$$

$$q > 0$$

