$y = ax^n + c$

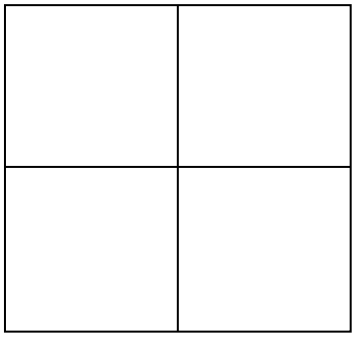
AB-Potenzfunktionen

Skizziere die folgenden Funktionen in die vorbereiteten Koordinatensysteme!

Nutze dein Wissen über die Beeinflussung der Standardgraphen der Potenzfunktionen durch die Koeffizienten a und c!

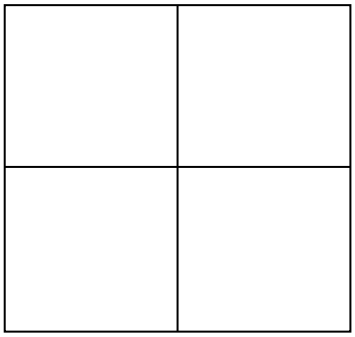
a)

$y1 = x^2$
$y2 = -x^2$



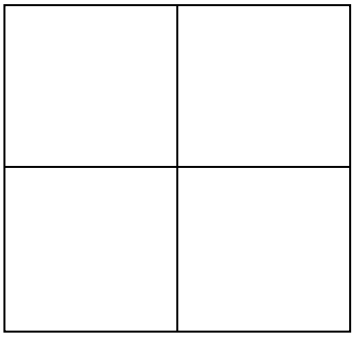
b)

$y1 = 2x^2$
$y2 = 0{,}5x^2$
$y3 = -2x^2$



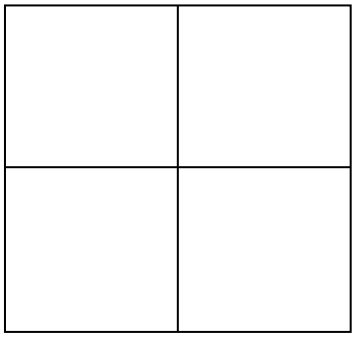
c)

$y1 = x^2 - 1$
$y2 = x^2 + 2$



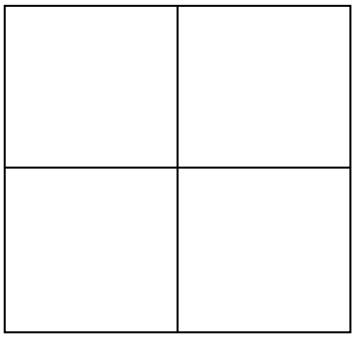
d)

$y1 = x^2$
$y2 = x^4$
$y3 = x^6$



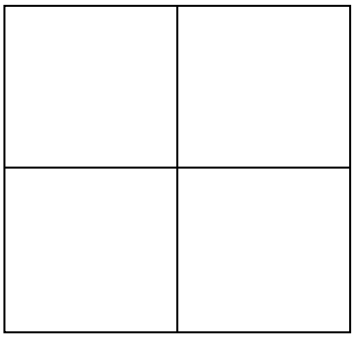
e)

$y1 = x^3$
$y2 = x^5$
$y3 = x^7$



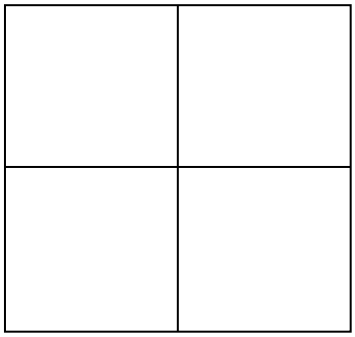
f)

$y1 = -x^3$
$y2 = -x^3 + 2$



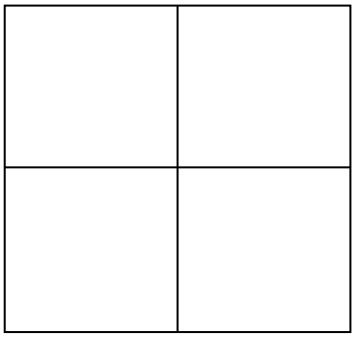
g)

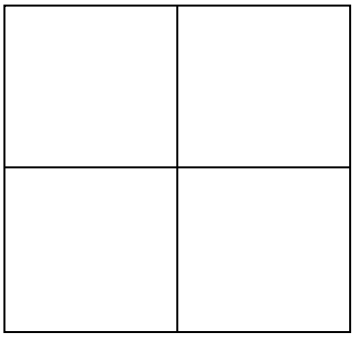
$y1 = -x^2 - 4$
$y2 = x^3 + 4$
$y3 = 2x^2 - 1$



h)**

$y1 = 3x$
$y2 = x^3$
$y3 = x - 3$



i)***

$y1 = -x^3 + 1$
$y2 = -x^3 + 2$
$y3 = -1 + x^2$