Features of Quadratics Name: Key

Domain: all x-values, for quadratics always $(-\infty, \infty)$

Range: all y-values, depends on vertex

y-intercepts: where we cross the y-axis, where $x=0$!

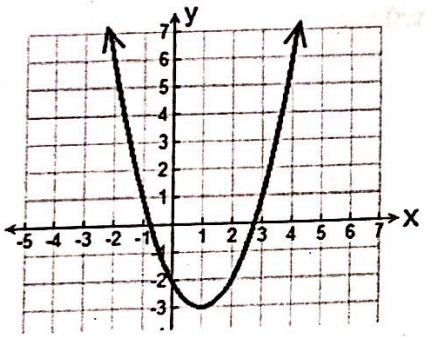
(function)

- We can look for this in our table easily, or just plug in 0 for x!

Let's Practice! Find the y-intercept!

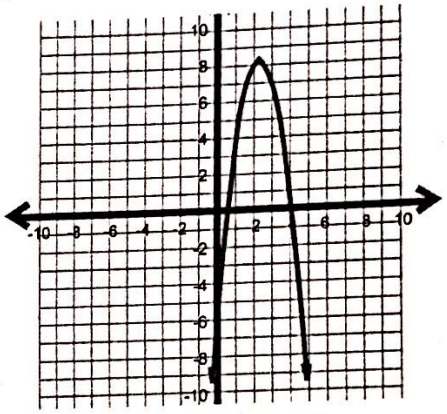
1. $2(x-5)^2-4$ $(0,46)$
2. $.5x^2-4x-15$ $(0,-15)$
3. $(x+3)^2+8$ $(0,17)$

Let's Practice Finding Domain and Range!



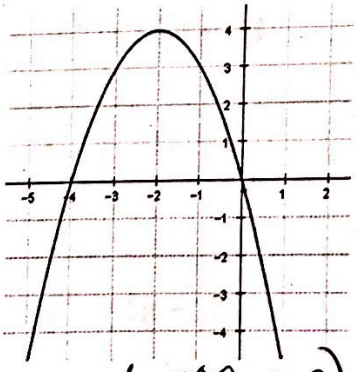
Domain: $(-\infty, \infty)$

Range: $[-3, \infty)$



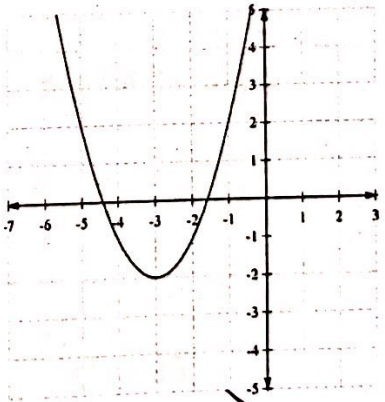
Domain: $(-\infty, \infty)$

Range: $(-\infty, 8]$



Domain: $(-\infty, \infty)$

Range: $(-\infty, 4]$



Domain: $(-\infty, \infty)$

Range: $[-2, \infty)$