

Intercept Form

$|a|$ stretches or compresses parabola
 $a > 0$ opens up; $a < 0$ opens down

$$y = a(x - p)(x - q)$$

x-intercept at point $(p,0)$

x-intercept at point $(q,0)$

Write a quadratic equation with x-intercepts at $(1,0)$ and $(4,0)$ with point $(3,2)$.

Intercept Form $y = a(x - p)(x - q)$ with p and q as x-intercepts

Write a quadratic equation with x -intercepts at $(-1,0)$ and $(6,0)$ with point $(1,-20)$.

Intercept Form $y = a(x - p)(x - q)$ with p and q as x -intercepts

Write a quadratic equation with x -intercepts at 1 and -2 with point $(-1,-6)$.

Intercept Form $y = a(x - p)(x - q)$ with p and q as x -intercepts

Write a quadratic equation with x -intercepts at 1 and 5 with point (3,-2).

Intercept Form $y = a(x - p)(x - q)$ with p and q as x -intercepts

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x -intercept at point $(p,0)$

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