

Write og. of parabola $y = a (x-h)^{2} + K$ y = a (x-p)(x-g) $y = a (x+2)^{2} + s$ $y = a (x+2)^{2} + s$ y=-3(x+2)2+5 Used Vertex: (5,-3) Pomt: (2,-7.5) $y=a(x-5)^2-3$ -7.5= $a(z-5)^2-3$ $-7.5 = a(-3)^2 - 3$ -7.5 = 9a - 3- 4.5 = 90 -0.5=a $y=-0.5(x-5)^{2}-3$

Find the equation of the parabola With X-intercepts -2 + 4 Point on parabula at (-1,10) X y (-1,10) -2 y=a(x-p)(x-g) f = -3(x+3)(x-4) $y = \alpha (x + 2)(x - 4)$ 10 = $\alpha (-1 + 2)(-1 - 4)$ 10= a . 1 . -5 $0 = -\frac{5a}{-5}$

