

 $y = -\frac{1}{a} x^{2} + 6x - 15$ Vertex: a^{2} $x = \frac{-b}{2a} = \frac{-6}{2(12)} = \frac{-6}{1} = 6$ $x = \frac{-b}{2a} = \frac{-6}{2(12)} = 1$ $y = -\frac{1}{a}(b)^{2} + 6(6) - 15$ = -18 + 36 - 15 $x + \frac{1}{2}$ $y = -\frac{1}{a}(b)^{2} + 6(6) - 15$ = -18 + 36 - 15 $\frac{x}{0} + \frac{1}{0}$ = 3 1 + 36 - 15 $\frac{x}{0} + \frac{1}{0}$ $1 + \frac{1}{2}$ $y = -\frac{1}{a}(b)^{2} + \frac{1}{2}(6)^{2} + \frac{1}{2}(5)^{2}$ = 3 $y = 76x; (6x^{3})$ $\frac{3}{3} + \frac{1}{4} + \frac{1}{2}(5)^{2}$ $y = -\frac{1}{a}(b)^{2} + \frac{1}{2}(6x^{3})$ $y = -\frac{1}{a}(b)^{2} + \frac{1}{2}(6x^$

 $\frac{\text{Intercept Form}}{y = 2(x-3)(x+7)}$ $x-3=0 \quad x+7=0$ $x=3 \quad x=-7$ x-intercepts $\begin{array}{l} \chi - \cos d = \frac{3 + -7}{a} = \frac{-y}{z} = -2 \\ y = a(-2 - 3)(-2 + 7) \\ = a(-s)(s) = -50 \\ \text{Vertex} (-a, -so) \end{array}$ y

1) 1972, Mercury Greet =
$${}^{9}3200$$

 $v(t) = 18.75 t^{2} - 4sut + 3200$
what was its lowert value.
 $t = -\frac{b}{aa} = -\frac{t(+4su)}{a(18.7s)} = 12 yrs \frac{1772}{1984}$
 $V = 18.75(12)^{2} - 45u(12) + 320$
 $= {}^{4}500$