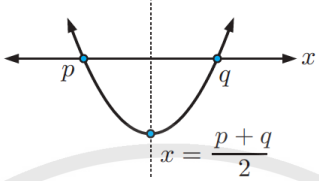
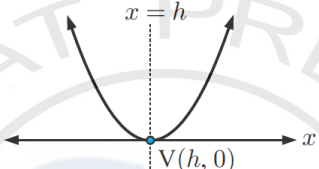
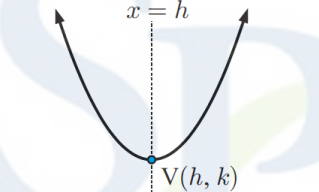
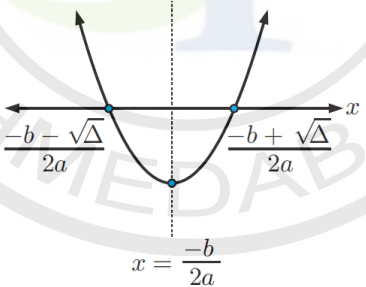


Quadratic form, $a \neq 0$	Graph	Facts
<ul style="list-style-type: none"> $y = a(x - p)(x - q)$ p, q are real 		<ul style="list-style-type: none"> x-intercepts are p and q axis of symmetry is $x = \frac{p+q}{2}$ vertex is $(\frac{p+q}{2}, f(\frac{p+q}{2}))$
<ul style="list-style-type: none"> $y = a(x - h)^2$ h is real 		<ul style="list-style-type: none"> touches x-axis at h axis of symmetry is $x = h$ vertex is $(h, 0)$
<ul style="list-style-type: none"> $y = a(x - h)^2 + k$ 		<ul style="list-style-type: none"> axis of symmetry is $x = h$ vertex is (h, k)
<ul style="list-style-type: none"> $y = ax^2 + bx + c$ 		<ul style="list-style-type: none"> y-intercept c axis of symmetry is $x = \frac{-b}{2a}$ vertex is $(\frac{-b}{2a}, c - \frac{b^2}{4a})$ x-intercepts for $\Delta \geq 0$ are $\frac{-b \pm \sqrt{\Delta}}{2a}$ where $\Delta = b^2 - 4ac$