Vertex of the Quadratic

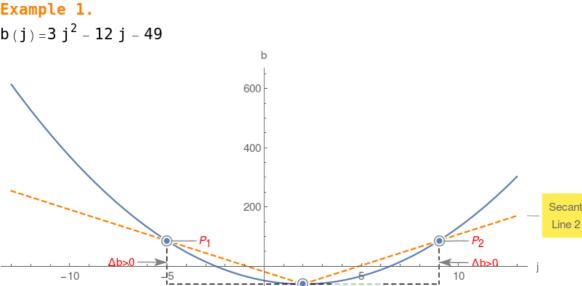
 $j_1 = -\frac{b}{2a}$ namely $b(j_1) = c - \frac{b^2}{4a}$ Now compute the same quadratic at ${f j}_{1^+}{f h}$, namely

Given a quadratic $b(j) = a j^2 + b j + c$ compute its value at

 $b(j_1+h) = -\frac{b^2}{4a} + ah^2 + c$

Compute $\triangle = b(j_1+h) - b(j_1) = ah^2$ Since $h^2 > 0$, therefore if a > 0 then $\triangle > 0$ or vertex is the

global minimum!



Secan

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