

$$f'(x) = [0.75(x-3)^2 + 1]' =$$

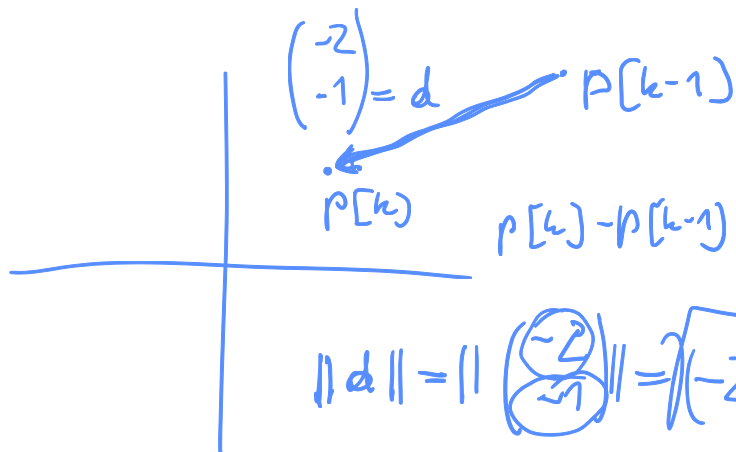
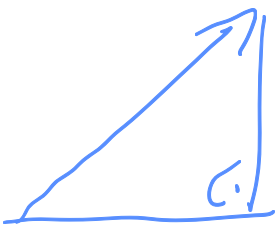
$$0.75 \cdot 2(x-3)^1 \cdot 1 + 0 = \underbrace{1.5(x-3)}_{=0} \stackrel{!}{=} 0 \quad | : 1.5$$

$$x-3 = 0$$

$$x = 3$$

Min.

$$f''(x) = 1.5 \cdot 1 > 0$$



$$\|d\| = \left\| \begin{pmatrix} -2 \\ -1 \end{pmatrix} \right\| = \sqrt{(-2)^2 + (-1)^2} < \epsilon \quad ?$$