https://www.ocf.berkeley.edu/~yosenl/math/epsilon-delta.po

Zach and abireccommended this..?



Albert Huang
4Sep 2020. | hour

190:

$$\lim_{x \to 2} \frac{2x^2 - 3x - 2}{x - 2} = 5$$

$$\frac{(2x - 2)(x - 2)}{x - 2} = 5$$

$$(2(x + \delta) - 2) = 5 + \epsilon$$

$$2(x + \delta) - 2 = 5 + \epsilon$$

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192:

$$\lim_{x \to 2} \chi^{2} + 2\chi = 8$$

$$(\pi \pm \delta)^{2} + 2(\chi \pm \delta) = 8 \pm \epsilon$$

$$\chi^{2} + \delta^{2} \pm 2\chi \delta + 2\chi \pm 2\delta = 8 \pm \epsilon$$

$$4 + \delta^{2} \pm 4\delta + 4 \pm 2\delta = 8 \pm \epsilon$$

I think I'm confused... how were we supposed to do this? I felt like each step in class made sense, but I'm not confident in the big picture of the proof.