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Time 15:00

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ACHA 3000

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④ $14x^2 + 3x = 11$

$$14x^2 + 3x = \textcircled{11}$$

$$14x^2 + 3x - 11 = 0$$

$$\underline{14 = a} \quad \underline{3 = b} \quad \underline{-11 = c}$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{-3 \pm \sqrt{3^2 - 4 \times 14 \times -11}}{2 \times 14}$$

$$x = \frac{-3 \pm \sqrt{9 + 616}}{28}$$

$$x = \frac{-3 \pm \sqrt{625}}{28}$$

$$x = \frac{-3 + \sqrt{625}}{28}$$

$$\text{or } x = \frac{-3 - \sqrt{625}}{28}$$

$$\cancel{x = \frac{11}{14}}$$

$$\cancel{x = -1}$$

$$x = 0.7857$$