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ACHA 3000

2012643

Question 4

$$x_2 = \frac{-6 \pm \sqrt{6^2 - 4AC}}{2a}$$

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

$$a = 14 \quad b = 3 \quad c = 11$$

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

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

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

$$x = \frac{-3 \pm 25}{28}$$

$$x = \frac{-3 + 25}{28}$$

~~Th. = 10.750 kg. 17. Dec. 1921~~

$$x = \underline{0.79} \text{ (to 2 decimal places)}$$

OR

$$x = \frac{-3 - 25}{28}$$

$$x = -1$$