

# The Weekly Rigor

No. 293

“A mathematician is a machine for turning coffee into theorems.”

February 1, 2020

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## 10 Problems in Solving First-Degree Equations Involving Fractional Forms (Part 2)

7.  $\frac{m}{3} + 3m = 10.$

8.  $2 - \frac{x+8}{4} = 2x - \frac{x+6}{3}.$

$$9. \frac{\alpha}{5} + \frac{\alpha-2}{3} = \alpha - \frac{5\alpha-1}{6}.$$

$$10. \frac{x-1}{2} + \frac{x-3}{4} - \frac{x-2}{3} = \frac{2}{3}.$$

### ANSWERS

1. 4	2. 4
3. 12	4. 12
5. 14	6. 4
7. 3	8. $\frac{24}{23}$
9. $\frac{25}{11}$	10. 3

“Only he who never plays, never loses.”