The Weekly Rigor

No. 289

"A mathematician is a machine for turning coffee into theorems."

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10 Problems in Transposing the Terms of First-Degree Equations

PROBLEMS

Transpose the known terms to the second member and the unknown terms to the first member.

1. 3x - 2 = x + 4.

2. 2x + 5 = 11.

3. 5x + 2 = 3x + 9.

4. 4x + 6 = 2x + 10.

5. 5x + 4 - 2x = 10 + x.

6. 18 - 3x = 5x + 2.

7. 7x + 6 = 5x + 14.

9. 2x - 12 = 5x - 30.

10. 6x + 16 = 9x - 5.

ANSWERS

1. $3x - x = 4 + 2$	2. $2x = 11 - 5$
3. $5x - 3x = 9 - 2$	4. $4x - 2x = 10 - 6$
5. $5x - 2x - x = 10 - 4$	6. $-3x - 5x = 2 - 18$
7. $7x - 5x = 14 - 6$	8. $4x - 4x + 6x = 13 + 17$
9. $2x - 5x = -30 + 12$	10. $6x - 9x = -5 - 16$

"Only he who never plays, never loses."

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