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## 10 Problems in Solving First-Degree Equations

## PROBLEMS

Solve each equation.

1. $3 x-4=12-x$.
2. $4 x+6=2 x+10$.
3. $5 x+4-2 x=10+x$.
4. $18-3 x=5 x+2$.
5. $7 x+6=5 x+14$.
6. $4 x+2=22$.
7. $-6(x-4)-10=-12$.
8. $7 m+5=7 m-3$.
9. $6 n+4=9 n+4-3 n$.
10. $2(x+3)+6(x-4)=5(x-9)$.

## ANSWERS

| 1.4 | 2.2 |
| :--- | :--- |
| 3.3 | 4.2 |
| 5.4 | 6.5 |
| $7 . \frac{13}{3}$ | $8 . \emptyset$ (the empty set, i.e., no solution) |
| $9 . \mathbb{R}$ (math talk for "all real numbers") | $10 .-9$ |

"Only he who never plays, never loses."
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