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## 10 Problems in Solving Equations Involving Absolute Value

## PROBLEMS

Solve each equation.

1. $|x|=3$.
2. $|x+4|=7$.
3. $|x+2|=9$.
4. $|3 x-4|=14$.
5. $|5 x-7|=14$.
6. $|3-4 x|=8$.
7. $\left|\frac{x}{2}+\frac{x}{3}\right|=\frac{5}{3}$.
8. $\left|\frac{2 x}{3}+\frac{3 x}{4}\right|=\frac{5}{6}$.
9. $\left|\frac{x}{2}+\frac{3}{5}\right|=4$.
10. $\left|\frac{x}{2}+\frac{5}{3}\right|=5$.

## ANSWERS

| 1. $x=-3 ; x=3$ | 2. $x=-11 ; x=3$ |
| :--- | :--- |
| 3. $x=-11 ; x=7$ | 4. $x=-\frac{10}{3} ; x=6$ |
| 5. $x=-\frac{7}{5} ; x=\frac{21}{5}$ | 6. $x=-\frac{5}{4} ; x=\frac{11}{4}$ |
| 7. $x=-2 ; x=2$ | 8. $x=-\frac{10}{17} ; x=\frac{10}{17}$ |
| 9. $x=-\frac{46}{5} ; x=\frac{34}{5}$ | 10. $x=-\frac{40}{3} ; x=\frac{20}{3}$ |

"Only he who never plays, never loses."
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