# "What kind of house is easiest to pick up?"

Solve each equation. The answer to each problem will match a letter that will allow you to figure out the joke.

1. $|2x| = 10$

2. $|x - 3| = 12$

3. $|2x - 1| = 11$

4. $|3x| + 7 = 13$

5. $|x + 1| + 8 = 10$

6. $2|x - 3| + 10 = 8$

7. $|x^2 - 9| = 0$

8. $|-x| = 1$

9. $-|x + 3| = -4$

10. $|x + 2| + |x| = 6$

H:    ± 3

U:    1, -7

A:    4, -3

W:    ± 9

I:    6, -5

G:    No solution

E:    ± 2

H:    ± 5

F:    All real numbers

R:    5, -6

L:    ± 1

O:    15, -9

T:    2, -4

S:    1, -3

$$\underline{\phantom{x}}\ \underline{\phantom{x}}\ \underline{\phantom{x}}\ \underline{\phantom{x}}\ \underline{\phantom{x}}\ \underline{\phantom{x}}\ \underline{\phantom{x}}\ \underline{\phantom{x}}\ \underline{\phantom{x}}\ \underline{\phantom{x}}$$
8    3    6    1    10    7    2    9    5    4

Solving absolute value equations                                    Joke #17