

Names:

Sections 2.1 and 2.2

1. Solve:

(a)  $x - 12 = -19$ .

(b)  $\frac{7x}{2} = 35$ .

(c)  $4c + 3 = 7c - 8$ .

(d)  $(2w - 5) - (8 - 3w) = 4w + 17 - w$ .

(e)  $3y - 5 - (2y - 4) = (y + 3) + (y - 7)$ .

2. Solve

(a)  $|5x + 7| = 2$ .

(b)  $|2x - 5| = |4x + 7|$

3. An 8-foot board is cut into 2 pieces. If one piece is  $x$  feet long, express the other length in terms of  $x$ .

4. With  $x$  representing the unknown number, write each of the following phrases as an algebraic expression and simplify.

(a) Seven times the sum of a number and 5.

(b) The sum of triple a number and 10, subtracted from 17.