

Assignment

Write

Describe in your own words how to factor a -1 out of an addition or subtraction expression.

Remember

When you multiply any expression by -1 , the result is the opposite of that expression.

Practice

Factor out a negative 1 from each expression.

- $7 + (-6)$
- $-4 - (5 + 3)$
- $-9 - 1$
- Use the Distributive Property to show that your answers to Questions 1 through 3 are correct.

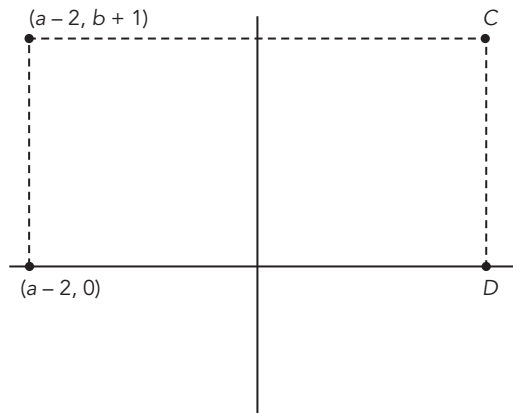
Use a number property to solve each problem efficiently. Show your work and list the property or properties used.

5. $-9.9 + 5.2 + 3.9 + 1$

6. $-\frac{3}{5} + \left(\frac{1}{5} - \frac{3}{2} + 0\right)$

Stretch

The rectangle shown is formed by a reflection of points C and D across the y -axis of the coordinate plane. Point C has the coordinates $(4, 4)$. Determine a and b and then calculate the perimeter of the rectangle.



Review

1. Carl and Joe recorded how fast they ran 1 mile and 2 miles. Carl recorded his times using fractions, and Joe recorded his times using decimals.

Distance	Carl	Joe
1 mi	$10\frac{1}{2}$ min	10.4 min
2 mi	$22\frac{1}{4}$ min	22.3 min

- Who ran the mile faster, Carl or Joe? How much faster?
 - Who ran 2 miles faster, Carl or Joe? How much faster?
2. A small submarine is at an elevation of -30 feet compared to sea level. What is its elevation after it ascends 9 feet?
3. On Tuesday, Marissa was \$45 short of her fundraising goal. The next day, she was \$5 over her goal. Write an equation to show how much she raised in one day.
4. What is 12% of 350?
5. What is 35% of 120?