

Instructions

Each number line below shows two points, a and b and the position of 0.

The first two lines have correct labels for the arrows. Work on labeling the final three lines correctly using only the labels shown below.

$a + b$ $b - a$ $a - b$

The diagram shows five horizontal number lines with arrows at both ends. Each line has a vertical tick mark labeled '0' in the center. Points a and b are marked with red dots on the lines.

- Line 1:** Point a is to the left of 0, and point b is to the right of 0. An arrow points to a with the label $a - b$. Two arrows point to b with labels $a + b$ and $b - a$.
- Line 2:** Point a is to the right of 0, and point b is to the right of a . An arrow points to a with the label $a - b$. An arrow points to b with the label $b - a$. An arrow points to the right of b with the label $a + b$.
- Line 3:** Point a is to the left of 0, and point b is to the right of 0. Three empty boxes are positioned above the line with arrows pointing to the left of a , between a and b , and to the right of b .
- Line 4:** Point b is to the left of 0, and point a is to the right of 0. Two empty boxes are positioned above the line with arrows pointing to the left of b and to the right of a .
- Line 5:** Point a is to the left of 0, and point b is to the left of a . Two empty boxes are positioned above the line with arrows pointing to the left of b and to the right of 0.

Hint: a and b are the same number.

Hint: these two arrows point to the same point.