

In an isosceles trapezoid the legs are equal to two and the upper base is equal to 2 as well. What is the length of the downward base?

**Solution:**

Because we can't uniquely define a trapezoid only around three sides, so that to find length of the downward base we need the value of some angle in trapezoid. According to condition of the task, we can find only length limits.

**Example:** both trapezoids (Figure 1) have equal upper bases and legs, but downward bases are not equal due to the fact that the position of the lower base is not fixed.

**Answer:** the limits of the downward base:  $(0 < \text{downward base} < 2) \cup (2 < \text{downward base} < 6)$ . (lower base can't be equal to 2, because then we get a square and the square is not a trapezoid)

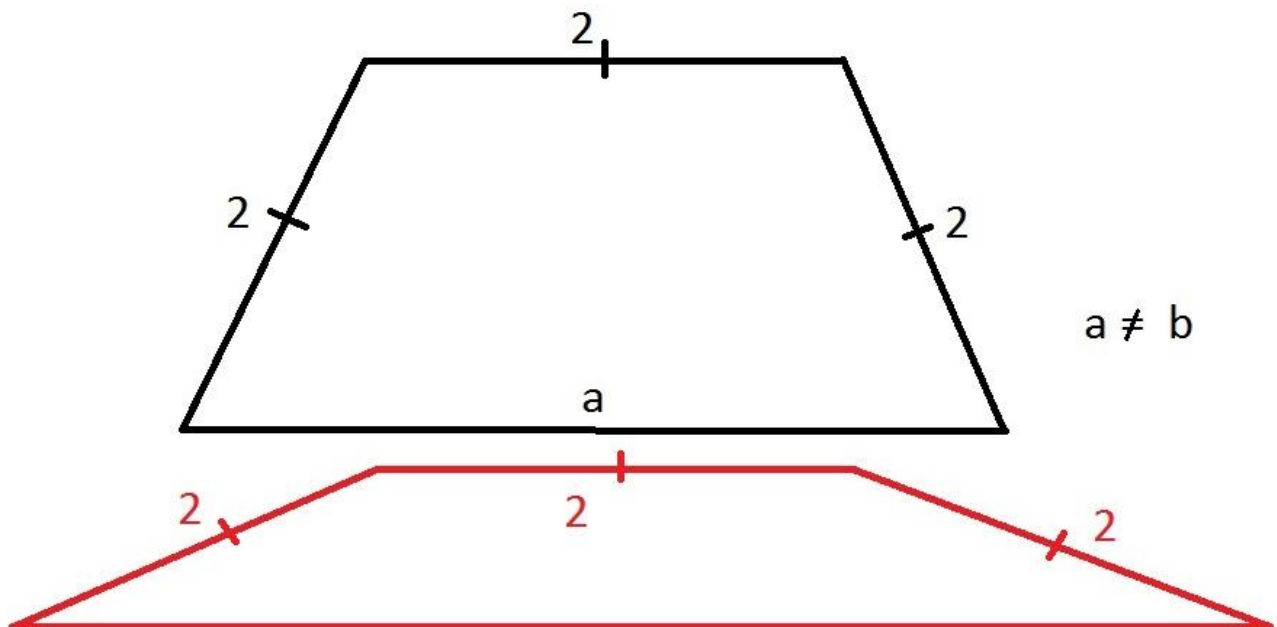


Figure 1