The end of a curtain is sliding along a straight curtain track. The end of the curtain is moved $S_1 = 46$ cm left, $S_2 = 28$ cm right and then $S_3 = 61$ cm left.

What is the displacement of the end of the curtain, if right is chosen as the positive direction?

Solution:

The displacement

$$S = -46 + 28 - 61 = -79 \text{ cm}$$

Answer: $S = -79$ cm.