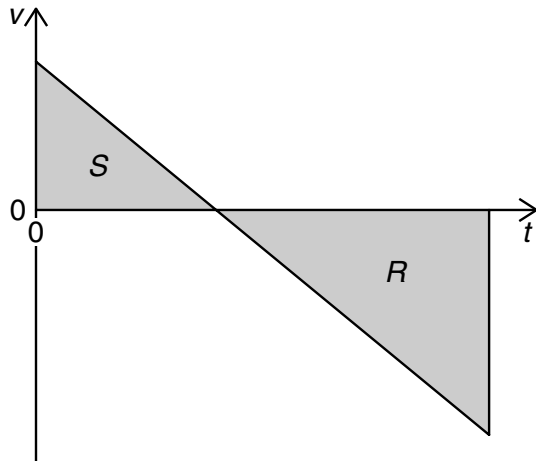**8** A stone is thrown upwards from the top of a cliff. After reaching its maximum height, it falls past the cliff-top and into the sea.

The graph shows how the vertical velocity v of the stone varies with time t after being thrown upwards. R and S are the magnitudes of the areas of the two triangles.

What is the height of the cliff-top above the sea?

A R **B** S **C** $R + S$ **D** $R - S$