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To better understand how the altitude of a right triangle acts as a mean proportion in similar triangles, look at the triangle below with sides a , b and c and altitude H . SAAS HLLH (Case 1) HLLH (Case 2) Sal finds a missing side length in a problem where the same side plays different roles in two similar triangles. Sal finds a missing side length in a problem where the same side plays different roles in two similar triangles. If you're seeing this message, it means we're having trouble loading external resources on our website. Similar Triangles. Two triangles are Similar if the only difference is size (and possibly the need to turn or flip one around). These triangles are all similar: (Equal angles have been marked with the same number of arcs) Some of them have different sizes and some of them have been turned or flipped. For similar triangles: Then, because both triangles contain angle S , the triangles are similar by AA (Angle-Angle). Now find x and y . And here's the solution for y : First, don't fall for the trap and conclude that $y = 4$., Similar Right Triangles Find X.

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