

Download Sides Of Special Right Triangles

A special right triangle is a right triangle whose sides are in a particular ratio, called the Pythagorean Triples. You can also use the Pythagorean theorem, but if you can see that it is a special triangle it can save you some calculations. The following figures show some examples of special right triangles and Pythagorean Triples. All of the special side based right triangles possess angles which are not necessarily rational numbers, but whose sides are always of integer length and form a Pythagorean triple. They are most useful in that they may be easily remembered and any multiple of the sides produces the same relationship. Video transcript. If these two angles are equal, then the sides that they don't share-- so this side and this side in this example, or this side and this side in this example-- then the two sides are going to be equal. So what's interesting about a 45-45-90 triangle is that it is a right triangle that has this property. When solving the two special right triangles, keep in mind that it's the proportions of the sides that matter, not their measurement in absolute terms. For example, a triangle has sides that measure 1 foot, and 1 foot, and $\sqrt{2}$ feet, so you know it's a 45-45-90 triangle and has internal angles of 45, 45, and 90 degrees., Sides Of Special Right Triangles.

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