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Similar triangles. Two triangles, ABC and $A'B'C'$, are similar if and only if corresponding angles have the same measure: this implies that they are similar if and only if the lengths of corresponding sides are proportional. It can be shown that two triangles having congruent angles (equiangular triangles) are similar, that is, the corresponding sides can be proved to be proportional.

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Geometry is the branch of mathematics that deals with shapes, angles, dimensions and sizes of a variety of things we see in everyday life. In Euclidean geometry, there are two-dimensional shapes and three-dimensional shapes.. In plane geometry, 2 shapes such as triangles, squares, rectangles, circles are also called flat shapes.

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PQ = 1.28, PR = 2.56, PE = 0.18, PF = 0.36 ... know that equilateral triangles are having all its angles as 60° and all its sides of same length. So, all equilateral triangles are similar to each other. ... Chapter 3- Pairs of Linear Equations in Two Variables Chapter 4- Quadratic Equations Chapter 5- Arithmetic Progressions Chapter 7 ...

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Since the triangles are similar, all the sides are proportional with the same ratio of 2:1. Lesson Summary In this lesson, you learn about some proportional relationships in similar triangles.

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Geometry (from the Ancient Greek: γεωμετρία; geo-"earth", -metron "measurement") is, with arithmetic, one of the oldest branches of mathematics. It is concerned with properties of space that are related with distance, shape, size, and relative position of figures. A mathematician who works in the field of geometry is called a geometer.. Until the 19th century, geometry was almost

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Thus, $\triangle APQ$ and $\triangle ABC$ are similar to each other by AA criteria. Now, we know that corresponding parts of similar triangles are proportional. Therefore, $\frac{AP}{AB} = \frac{PQ}{BC}$ $\therefore PQ = \left(\frac{AP}{AB}\right) \times BC = \left(\frac{2.4}{6}\right) \times 6 = 2.4$ $\therefore PQ = 2.4$ cm. Therefore, Length of PQ is 2.4

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cm and AB is 6cm

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For example, all 30° - 60° - 90° right triangles, are similar triangles though they may differ in size. When we say that triangles ABC D E F are similar, it is assumed that angles A and D are congruent, angles B and E are congruent, and angles C and F are congruent as shown in Geometry Figure 15 below.

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The 3/4/5, 5/12/13 and 7/24/25 triangles are examples of right triangles whose sides are whole numbers. The graphic above contains several of each of these triangles. The 3/4/5 triangle is contained within the so-called "King's Chamber" of the Great Pyramid, along with the 2/3/root5 and 5/root5/2root5 triangle utilizing the various ...

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Some visual proofs of Pythagoras' Theorem My favourite proof of the look-and-see variety is on the right. Both diagrams are of the same size square of side $a + b$. Both squares contain the same identical right-angled triangles in white (so it is white-angled)

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sides a , b , c . The left square also has two blue squares with area a^2 and b^2 whereas the right hand one replaces them with ...

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