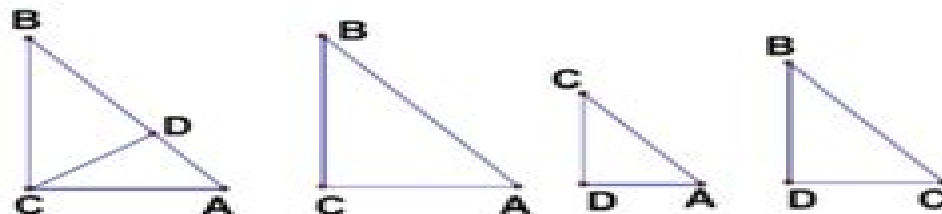


8-4 SIMILARITY IN RIGHT TRIANGLES (p. 439-444)

There is no need to do the Investigation.



When altitude \overline{CD} is drawn to the hypotenuse of $\triangle ABC$ in the first diagram on the left, three similar triangles are formed. Let's see why?

1. Why is $\triangle BCA \sim \triangle CDA$?
2. Why is $\triangle BCA \sim \triangle BDC$?
3. After answering the first two questions, why is $\triangle CDA \sim \triangle BDC$?
4. How do the three triangles relate to each other?

The first result from the investigation of the three right triangles is summarized in Theorem 8-3.

Theorem 8-3

The altitude to the hypotenuse of a right triangle divides the triangle into two triangles that are similar to the original triangle and to each other.

In the proportion $\frac{a}{b} = \frac{c}{d}$, b and c are called the means and a and d are called the extremes of the proportion.

In the proportion $\frac{a}{x} = \frac{x}{b}$, notice that the means are equal (they are both equal to x). This type of proportion is sometimes referred to as a mean proportion. Also, x is referred to as the geometric mean of a and b (recall that a and b are the extremes).

By the cross-product property, $x^2 = ab$. Why is $x = \sqrt{ab}$?

So, to find the geometric mean of two numbers, take the square root of the product of the two numbers.

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web diagram indicating kinetochore microtubules bound to kinetochores and the aster the aster is an array of microtubules that radiates out from the centrosome towards the cell edge diagram also indicates the centromere region of a chromosome the narrow waist where the two sister chromatids are most tightly connected and the kinetochore a

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web mitosis is the process of nuclear division at the end of mitosis a cell contains two identical nuclei mitosis is divided into

four stages pmat listed below prophase metaphase anaphase telophase cytokinesis the process of cell division occurs during the last stage of mitosis telophase some cells do not go through mitosis

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web during mitosis two identical copies of the genome are packaged into chromosomes that are distributed equally between two daughter nuclei by a highly dynamic spindle structure

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web the mitotic phase also known as m phase is a multistep process during which the duplicated chromosomes are aligned separated and move into two new identical daughter cells the first portion of the mitotic phase is called karyokinesis or nuclear division

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web dec 8 2016 mitosis definition mitosis is the step in the cell cycle that the newly duplicated dna is separated and two new cells are formed this process is important in single celled eukaryotes as it is the process of asexual reproduction in multicelled eukaryotes mitosis is how a single zygote can become an entire organism

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web the daughter cells are clones of each other every base pair of their is identical the stages of the cell cycle are the stages of mitosis are prophase metaphase anaphase

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web specifically compare the chromosomes in cells at the end of mitosis vs the end of meiosis i recognizing that the diagram of mitosis tracks just a single pair of homologous chromosomes whereas the diagram of meiosis tracks two pairs of homologous chromosomes one long chromosome and short chromosome

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web review describe the different forms that dna takes before and during cell division in a eukaryotic cell identify the four phases of mitosis in an animal cell and summarize what happens during each phase explain what happens during cytokinesis in an animal cell

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is divided into two nuclei with an equal amount of genetic material in both the daughter nuclei it succeeds the g2 phase and is succeeded by cytoplasmic division after the separation of the nucleus

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web prophase prometaphase the cell prepares for mitosis at this stage the chromosomes are not clearly visible the chromosomes pairs of sister chromatids condense and become visible meanwhile the nucleolus and nuclear envelope disappear the centrioles begin moving to opposite ends of the cell and start forming the mitotic spindle metaphase

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