

## Geometry 1: Triangle Congruence Unit Review

**G-CO.7. Learning Target:** *I can show that two triangles are congruent through rigid motions if and only if the corresponding pairs of sides and corresponding pairs of angles are congruent.*

1. Given that  $\triangle A'B'C'$  is a rotation of  $\triangle ABC$



(a) Are the two triangles congruent? Explain why or why not.

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(b) Is  $\angle B' \cong \angle B$ ? Explain why or why not.

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2. Parallelogram  $ABCD$  has diagonals  $\overline{AC}$  and  $\overline{BD}$  that bisect each other. They intersect at point  $E$ . If  $\overline{AE}$  is  $4x - 15$  and  $\overline{CE}$  is  $10x - 50$ , what is the value of  $x$  and the measure of diagonal  $\overline{AC}$ ? Round to the nearest hundredth.

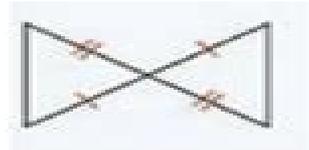
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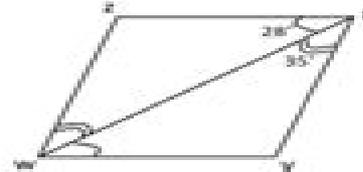
**G-CO.8. Learning Target:** *I can explain which series of angles and sides are essential in order to show congruence through rigid motions*

3. For each of the following pairs of triangles, explain why they are congruent.

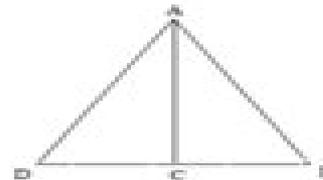
(a)



(b)



(c)  $\overline{AC}$  is the perpendicular bisector of  $\overline{DB}$ .



If  $\angle D = 40^\circ$ , find the measurement of  $\angle DAB$ .

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# Geometry Unit 1test Review 3

**D Kirk**

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular glow behind it.

## **Geometry Unit 1test Review 3:**

The Top Books of the Year Geometry Unit 1test Review 3 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. Geometry Unit 1test Review 3 : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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