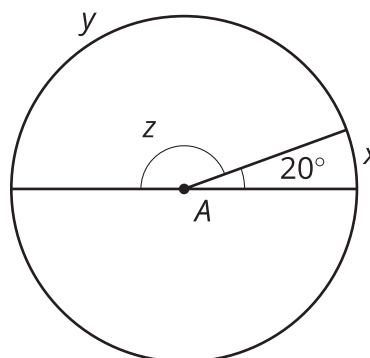


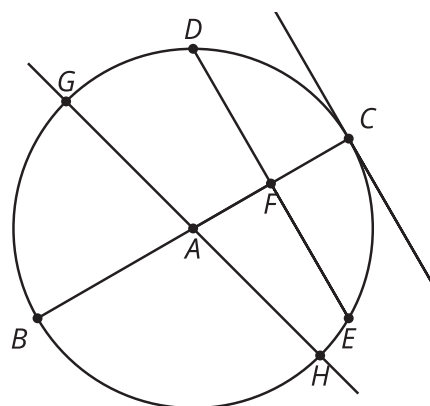
Lesson 1 Practice Problems

1. Find the values of x , y , and z .



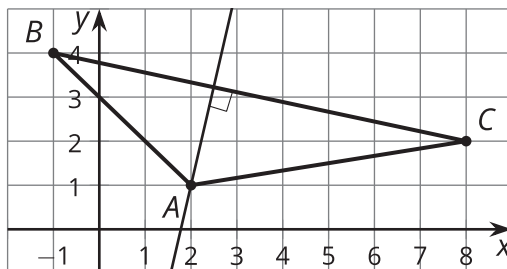
2. Give an example from the image of each kind of segment.

- a diameter
- a chord that is not a diameter
- a radius



3. Identify whether each statement must be true, could possibly be true, or definitely can't be true.
- A diameter is a chord.
 - A radius is a chord.
 - A chord is a diameter.
 - A central angle measures 90° .

4. Write an equation of the altitude from vertex A .



(From Unit 6, Lesson 17.)

5. Triangle ABC has vertices at $(5, 0)$, $(1, 6)$, and $(9, 3)$. What is the point of intersection of the triangle's medians?

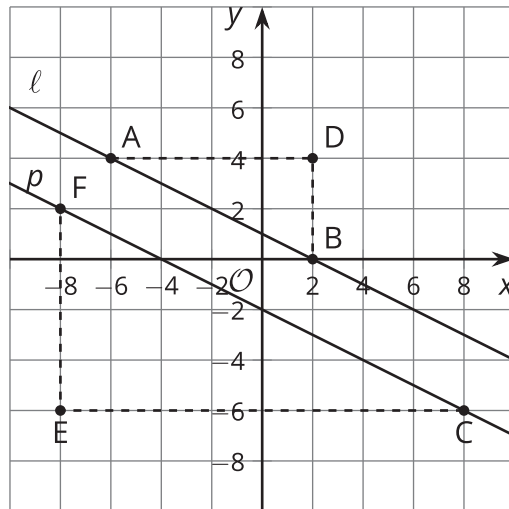
- A. The medians do not intersect in a single point.
- B. $(3, 3)$
- C. $(5, 3)$
- D. $(3, 4.5)$

(From Unit 6, Lesson 16.)

6. Consider the parallelogram with vertices at $(0, 0)$, $(8, 0)$, $(4, 6)$, and $(12, 6)$. Where do the diagonals of this parallelogram intersect?

(From Unit 6, Lesson 15.)

7. Lines ℓ and p are parallel. Select **all** true statements.

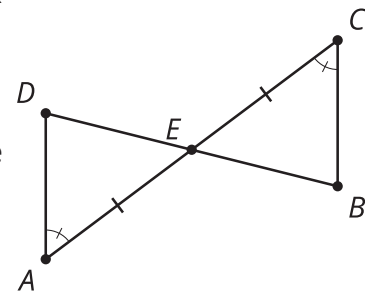


- A. Triangle ADB is congruent to triangle CEF .
- B. The slope of line ℓ is equal to the slope of line p .
- C. Triangle ADB is similar to triangle CEF .
- D. $\sin(A) = \sin(C)$
- E. $\cos(B) = \sin(C)$

(From Unit 6, Lesson 10.)

8. Mai wrote a proof that triangle AED is congruent to triangle CEB . Mai's proof is incomplete. How can Mai fix her proof?

We know side AE is congruent to side CE and angle A is congruent to angle C . By the Angle-Side-Angle Triangle Congruence Theorem, triangle AED is congruent to triangle CEB .



(From Unit 2, Lesson 7.)