

Chapter 5: Similarity
Lesson 5-3: Similar Triangles
Classwork: Geometry

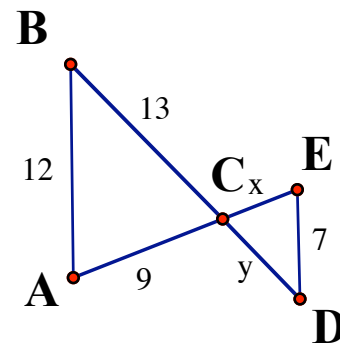
Name _____

1. Given: $\overline{AB} \parallel \overline{DE}$
 equation

equation

$x = \underline{\hspace{2cm}}$

$y = \underline{\hspace{2cm}}$

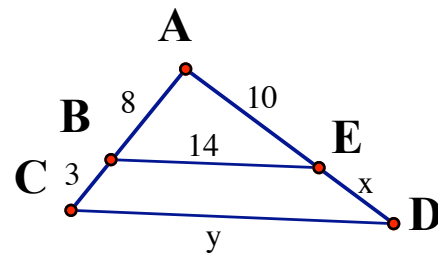


2. Given: $\overline{BE} \parallel \overline{CD}$
 equation

equation

$x = \underline{\hspace{2cm}}$

$y = \underline{\hspace{2cm}}$

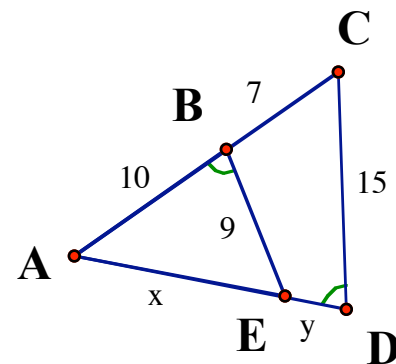


3. Given: $\angle ABE \cong \angle ADC$
 equation

equation

$x = \underline{\hspace{2cm}}$

$y = \underline{\hspace{2cm}}$



4. Given: Quadrilateral ABGF ~ Quadrilateral ACDE
 equation

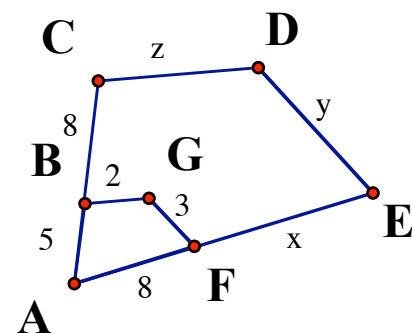
equation

equation

$x = \underline{\hspace{2cm}}$

$y = \underline{\hspace{2cm}}$

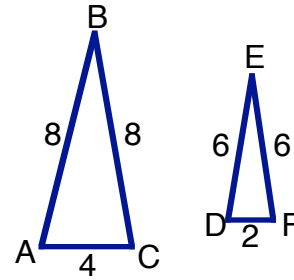
$z = \underline{\hspace{2cm}}$



Multiple Choice #5-9 are 10 points each

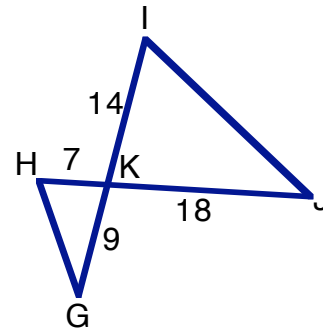
____ 5. Choose the method that explains why $\triangle ABC \sim \triangle DEF$.

- A AA
- B SSS**
- C SAS
- D not possible



____ 6. Choose the method that explains why $\triangle GHK \sim \triangle JIK$.

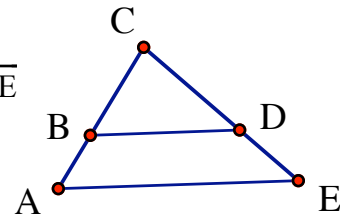
- A AA
- B SSS**
- C SAS
- D not possible



____ 7. Choose the method that explains why $\triangle CBD \sim \triangle CAE$.

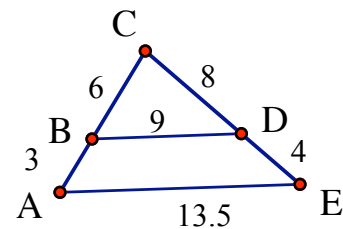
- A AA
- B SSS**
- C SAS
- D not possible

Given: $\overline{BD} \parallel \overline{AE}$



____ 8. Choose the method that explains why $\triangle CBD \sim \triangle CAE$.

- A AA
- B SSS**
- C SAS
- D not possible



____ 9. Choose the method that explains why $\triangle FGH \sim \triangle JKH$.

- A AA
- B SSS**
- C SAS
- D not possible

Given: $\overline{FG} \parallel \overline{KJ}$

