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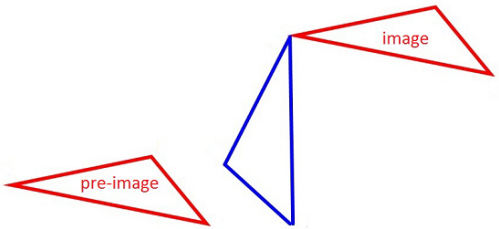
Given that the triangles in the picture are congruent, what transformation is shown?




a. rotation b. reflection c. translation



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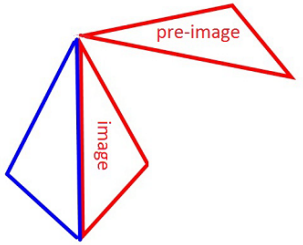
Given that the triangles in the picture are congruent, what transformation is shown?




a. reflection b. rotation c. translation

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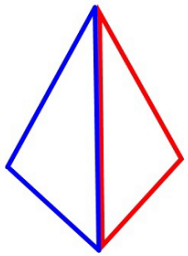
Given that the triangles in the picture are congruent, what transformation would have the triangles on top of each other?



a. reflection b. translation c. rotation



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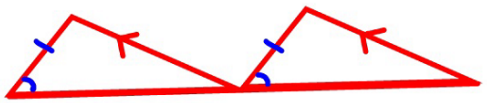
Which theorem, using the least amount of steps, could be used to establish that the triangles are congruent.



a. AAS
b. HL
c. SSS
d. ASA
e. not enough information
f. SAS

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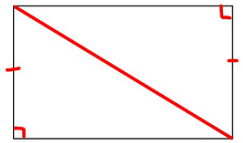
Which theorem, using the least amount of steps, could be used to establish that the triangles are congruent.



a. SAS
b. not enough information
c. ASA
d. AAS
e. HL
f. SSS



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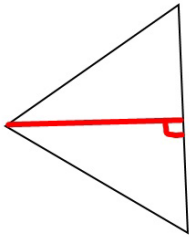
Which theorem, using the least amount of steps, could be used to establish that the triangles are congruent.



a. HL
b. SAS
c. not enough information
d. AAS
e. ASA
f. SSS

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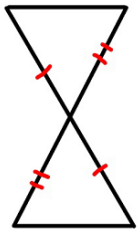
Which theorem, using the least amount of steps, could be used to establish that the triangles are congruent.



a. AAS
b. SSS
c. not enough information
d. SAS
e. ASA
f. HL



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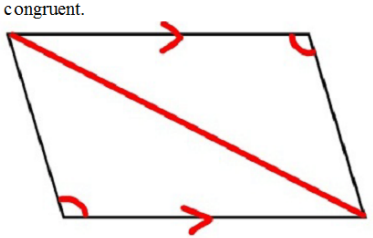
Which theorem, using the least amount of steps, could be used to establish that the triangles are congruent.



a. not enough information
b. SAS
c. HL
d. AAS
e. ASA
f. SSS

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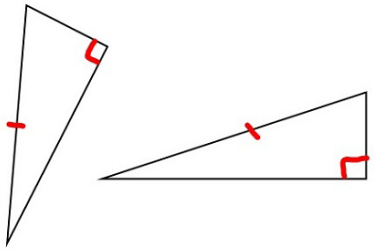
Which theorem, using the least amount of steps, could be used to establish that the triangles are congruent.



a. not enough information
b. HL
c. SAS
d. AAS
e. ASA
f. SSS



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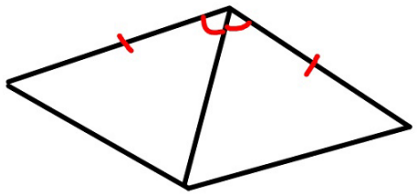
Which theorem, using the least amount of steps, could be used to establish that the triangles are congruent.



a. SSS
b. AAS
c. not enough information
d. HL
e. ASA
f. SAS

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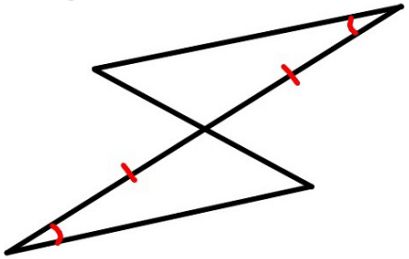
Which theorem, using the least amount of steps, could be used to establish that the triangles are congruent.



a. not enough information
b. HL
c. SAS
d. SSS
e. AAS
f. ASA



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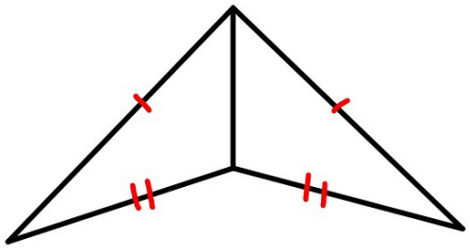
Which theorem, using the least amount of steps, could be used to establish that the triangles are congruent.



a. not enough information
b. ASA
c. SAS
d. AAS
e. SSS
f. HL

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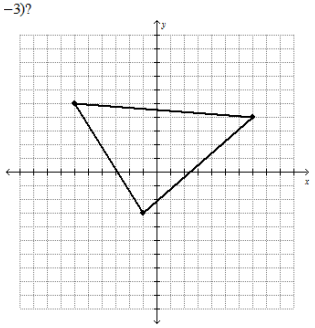
What are the coordinates of the centroid for the triangle with verticies at (−6, 5), (7, 4), and (−1, −3)?



a. (0, 2)
b. (−2, 2)
c. (−2, 3)
d. (0, 3)



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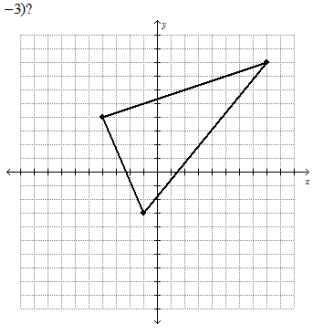
What are the coordinates of the centroid for the triangle with verticies at (−4, 4), (8, 8), and (−1, −3)?



a. (3, 4)
b. (3, 3)
c. (1, 3)
d. (1, 4)

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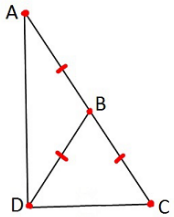
In the picture below, $m\angle DBA = 122^o$ and $m\angle ABC = 180^o$. Which statements are true?




a. $\Delta CDB$ is a scalene triangle
b. $\Delta DAC$ is a right triangle
c. $\Delta CDB$ is an isosceles triangle
d. $\Delta BDA$ is an isosceles triangle
e. $\Delta ABD$ is an equilateral triangle
f. $\Delta CDB$ is an isosceles triangle
g. $\Delta ACD$ is an isosceles triangle
h. $\Delta BDA$ is a right triangle



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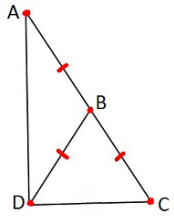
In the picture below, $m\angle DBA = 116^o$ and $m\angle ABC = 180^o$. Which statements are true?




a. $\Delta DBA$ is an isosceles triangle
b. $\Delta DBA$ is a right triangle
c. $\Delta BDA$ is an equilateral triangle
d. $\Delta BDC$ is an isosceles triangle
e. $\Delta BDC$ is a scalene triangle
f. $\Delta BDC$ is an isosceles triangle
g. $\Delta ACD$ is a right triangle
h. $\Delta DAC$ is an isosceles triangle

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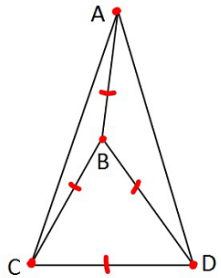
In the picture below, $m\angle CDA = 77^o$. How many degrees is $m\angle CBA$?



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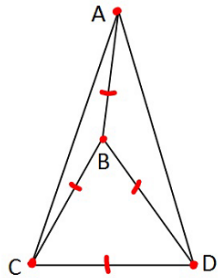
In the picture below, $m\angle DBA = 146^o$. How many degrees is $m\angle CDA$?

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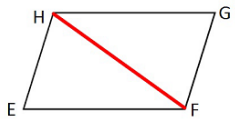
Which of the following reasons is incorrect for the proof shown?

Given: $\overline{EF} \parallel \overline{GH}$ and $\overline{EH} \parallel \overline{FG}$
Prove: $\overline{EH} \cong \overline{GF}$ and $\angle E \cong \angle G$




| Statements | Reasons |
|---|---|
| 1. $\overline{EF} \parallel \overline{GH}$ and $\overline{EH} \parallel \overline{FG}$ | 1. Given |
| 2. $\angle HFE \cong \angle FHG$<br>$\angle HFG \cong \angle FHE$ | 2. Alt. int. ang. theorem |
| 3. $\overline{HF} \cong \overline{HF}$ | 3. Reflex. prop. of congruence |
| 4. $\Delta EHF \cong \Delta GFH$ | 4. Seg. add. postulate |
| 5. $\overline{EH} \cong \overline{GF}$ and $\angle E \cong \angle G$ | 5. CPCTC |



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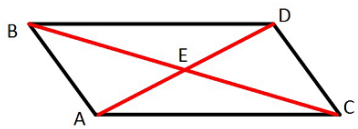
Which of the following reasons is incorrect for the proof shown?

Given: $\overline{BD} \parallel \overline{AC}$ and $\overline{BD} \cong \overline{AC}$
Prove: $\overline{BE} \cong \overline{CE}$ and $\overline{DE} \cong \overline{AE}$




| Statements | Reasons |
|---|---|
| 1. $\overline{BD} \parallel \overline{AC}$ and $\overline{BD} \cong \overline{AC}$ | 1. Ang. add. postulate |
| 2. $\angle DBE \cong \angle ACE$<br>$\angle EAC \cong \angle EDB$ | 2. Alt. int. ang. theorem |
| 3. $\Delta DBE \cong \Delta ACE$ | 3. ASA congruence |
| 4. $\overline{BE} \cong \overline{CE}$ and $\overline{DE} \cong \overline{AE}$ | 4. CPCTC |

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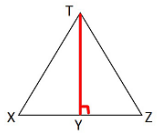
Which of the following reasons is incorrect for the proof shown?

Given: $\overline{TZ} \cong \overline{TX}$, $\angle TYZ \cong \angle TYX$, and $m\angle TYZ = 90°$
Prove: $\angle Z \cong \angle X$




| Statements | Reasons |
|---|---|
| 1. $\overline{TZ} \cong \overline{TX}$, $\angle TYZ \cong \angle TYX$, and $m\angle TYZ = 90°$ | 1. Given |
| 2. $\overline{YT} \cong \overline{YT}$ | 2. Ref. prop. of congruence |
| 3. $\Delta TYZ \cong \Delta TYX$ | 3. Base ang. theorem |
| 4. $\angle Z \cong \angle X$ | 4. CPCTC |



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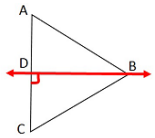
Which of the following reasons is incorrect for the proof shown?

Given: $\overline{AD} \cong \overline{CD}$ and $\angle BDA \cong \angle BDC$
Prove: $\overline{BA} \cong \overline{BC}$




| Statements | Reasons |
|---|---|
| 1. $\overline{AD} \cong \overline{CD}$ and $\angle BDA \cong \angle BDC$ | 1. Given |
| 2. $\overline{BD} \cong \overline{BD}$ | 2. Ref. prop. of congruence |
| 3. $\Delta BDA \cong \Delta BDC$ | 3. Ang. add. postulate |
| 4. $\overline{BA} \cong \overline{BC}$ | 4. CPCTC |

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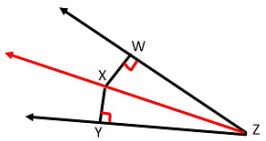
Which of the following reasons is incorrect for the proof shown?

Given: $\angle WZX \cong \angle YZX$ and $\angle W \cong \angle Y$
Prove: $\overline{XW} \cong \overline{XY}$




| Statements | Reasons |
|---|---|
| 1. $\angle WZX \cong \angle YZX$ and $\angle W \cong \angle Y$ | 1. Given |
| 2. $\overline{ZX} \cong \overline{ZX}$ | 2. Ref. prop. of congruence |
| 3. $\Delta WZX \cong \Delta YZX$ | 3. AAS congruence |
| 4. $\overline{XW} \cong \overline{XY}$ | 4. SSS congruence |



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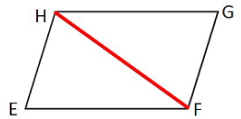
Which of the following statements is incorrect for the proof shown?

Given: $\overline{EF} \parallel \overline{GH}$ and $\overline{EH} \parallel \overline{FG}$
Prove: $\overline{EH} \cong \overline{GF}$ and $\angle E \cong \angle G$




| Statements | Reasons |
|---|---|
| 1. $\overline{EF} \parallel \overline{GH}$ and $\overline{EH} \parallel \overline{FG}$ | 1. Given |
| 2. $\angle HFE \cong \angle FHG$<br>$\angle HFG \cong \angle FHE$ | 2. Alternate Interior Angles Theorem |
| 3. $\overline{HF} \cong \overline{HF}$ | 3. Reflexive prop. of congruence |
| 4. $\Delta EHF \cong \Delta GHF$ | 4. ASA congruence |
| 5. $\overline{EH} \cong \overline{GF}$ and $\angle E \cong \angle G$ | 5. CPCTC |

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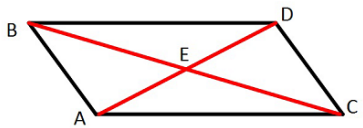
Which of the following statements is incorrect for the proof shown?

Given: $\overline{BD} \parallel \overline{AC}$ and $\overline{BD} \cong \overline{AC}$
Prove: $\overline{BE} \cong \overline{CE}$ and $\overline{DE} \cong \overline{AE}$




| Statements | Reasons |
|---|---|
| 1. $\overline{BD} \parallel \overline{AC}$ and $\overline{BD} \cong \overline{AC}$ | 1. Given |
| 2. $\angle DBE \cong \angle ACD$<br>$\angle EAC \cong \angle EDB$ | 2. Alternate Interior Angles Theorem |
| 3. $\Delta DBE \cong \Delta ACE$ | 3. ASA congruence |
| 4. $\overline{BE} \cong \overline{CE}$ and $\overline{DE} \cong \overline{AE}$ | 4. CPCTC |



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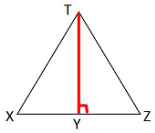
Which of the following reasons is incorrect for the proof shown?

Given: $\overline{TZ} \cong \overline{TX}$, $\angle TYZ \cong \angle TYX$, and $m\angle TYZ = 90°$
Prove: $\angle Z \cong \angle X$




| Statements | Reasons |
|---|---|
| 1. $\overline{TZ} \cong \overline{TX}$, $\angle TYZ \cong \angle TYX$, and $m\angle TYZ = 90°$ | 1. Given |
| 2. $\overline{YT} \cong \overline{YZ}$ | 2. Reflexive prop. of congruence |
| 3. $\Delta TYZ \cong \Delta TYX$ | 3. HL congruence |
| 4. $\angle Z \cong \angle X$ | 4. CPCTC |

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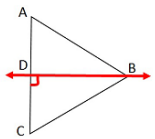
Which of the following statements is incorrect for the proof shown?

Given: $\overline{AD} \cong \overline{CD}$ and $\angle BDA \cong \angle BDC$
Prove: $\overline{BA} \cong \overline{BC}$




| Statements | Reasons |
|---|---|
| 1. $\overline{AD} \cong \overline{CD}$ and $\angle BDA \cong \angle BDC$ | 1. Given |
| 2. $\overline{BD} \cong \overline{BD}$ | 2. Reflexive prop. of congruence |
| 3. $\Delta BDA \cong \Delta BCD$ | 3. SAS congruence |
| 4. $\overline{BA} \cong \overline{BC}$ | 4. CPCTC |



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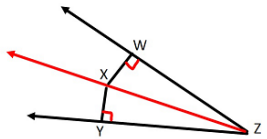
Which of the following statements is incorrect for the proof shown?

Given: $\angle WZX \cong \angle YZX$ and $\angle W \cong \angle Y$
Prove: $\overline{XW} \cong \overline{XY}$




| Statements | Reasons |
|---|---|
| 1. $\angle WZX \cong \angle YZX$ and $\angle W \cong \angle Y$ | 1. Given |
| 2. $\overline{ZX} \cong \overline{ZX}$ | 2. Reflexive prop. of congruence |
| 3. $\Delta WZX \cong \Delta YXZ$ | 3. AAS congruence |
| 4. $\overline{XW} \cong \overline{XY}$ | 4. CPCTC |