

Things in Blue are what I am able to add to add

Congruent Triangles Practice

Decide whether you can conclude that the two triangles are congruent. If they are write the reason you used to justify (ASA, SAS, SSS, AAS, or HL) and name the two congruent triangles. If you cannot conclude that they are congruent, write none.

1. $\overline{DB} \cong \overline{DB}$ (Reflexive Sides)

$\Delta ADB \cong \Delta CDB$
by HL

2. $\angle ADB \cong \angle FDC$ (Vertical Angles)

$\Delta DAB \cong \Delta DFC$
by AAS

3. $CB \parallel DA$
 $AB \parallel DC$

$\Delta BCD \cong \Delta DAB$
by ASA

$\overline{DB} \cong \overline{DB}$ (Reflexive)
 $\angle CBD \cong \angle ADB$ (Alt. Int. \angle 's)
 $\angle CDB \cong \angle ABD$ (Alt. Int. \angle 's)

4. $\overline{FB} \cong \overline{FB}$ (Reflexive Sides)

$\Delta FAB \cong \Delta BDF$
by SSS

5. $\overline{BD} \cong \overline{BD}$ (Reflexive)

$\Delta ABD \cong \Delta CDB$
by AAS

6. $\Delta BAD \cong \Delta KLD$ by SAS

7. $\Delta ACB \cong \Delta GFD$ by SAS

8. $\Delta BEA \cong \Delta DEC$ by SAS

$\angle BEA \cong \angle DEC$ (Vertical)

Things I can add are in Blue

Geometry/Trig

Name: _____

Congruent Triangle Practice 2

Date: _____

Decide whether you can conclude that the two triangles are congruent. If they are write the reason you used to justify (ASA, SAS, SSS, AAS, or HL) and name the two congruent triangles. If you cannot conclude that they are congruent, write none.

<p>1.</p> <p>$\triangle ACB \cong \triangle FDG$ by ASA</p>	<p>2.</p> <p>Not enough info, None</p>
<p>3.</p> <p>- Between None</p>	<p>4.</p> <p>B is the Midpoint of \overline{AD} SSA is not a reason, None $\angle ABF \cong \angle CBD$ (Vertical) $\overline{AB} \cong \overline{BD}$ (Definition of Midpoint)</p>
<p>5.</p> <p>$\triangle ABD \cong \triangle CDB$ by SAS $\overline{DB} \cong \overline{DB}$ (Reflexive) (Alt. Int. \angle's)</p>	<p>6.</p> <p>$\triangle ABD \cong \triangle CBD$ by SSS $\overline{BD} \cong \overline{BD}$ (Reflexive) B is the midpoint of AC; $\overline{AD} \cong \overline{CD}$ (Def. of MP)</p>
<p>7.</p> <p>CB bisects $\angle ACD$ None $\overline{CB} \cong \overline{CB}$ (Reflexive) $\angle ACB \cong \angle DCB$ (Def. of Angle Bisector)</p>	<p>8.</p> <p>None AAA is not a reason</p>