Geometry Review Ch. 4 Test Ch. 4 is tomorrow! Quiz 4.7-4.8 today

Possible construction(s) on test SSS SASASA At most: 1 coordinate proof 1 regular proof

4_1 Classifying Triangles

Classify each triangle as acute, equiangular, obtuse, or right.

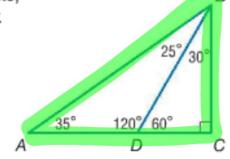
11. △*ADB*



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12. △*BCD*

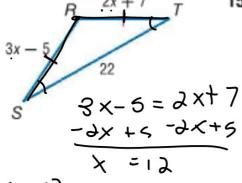
13. △*ABC*

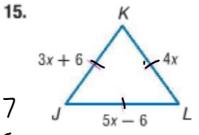


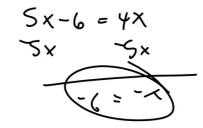
ALGEBRA Find x and the measures of the unknown sides

of each triangle.



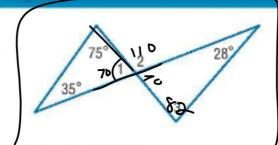




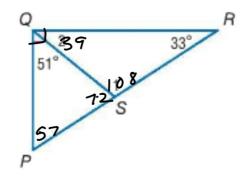


1_9 Angles of Triangles

Find the measure of each numbered angle.



Find the measure of each numbered angle.



Congruent Triangles

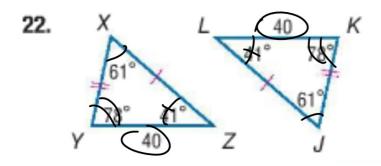
Show that the polygons are congruent by identifying all congruent corresponding parts. Then write a congruence

statement.

21.

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ABCD = FGHJ

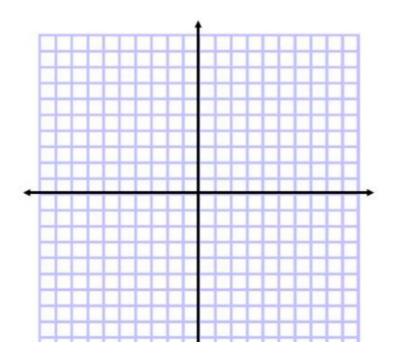


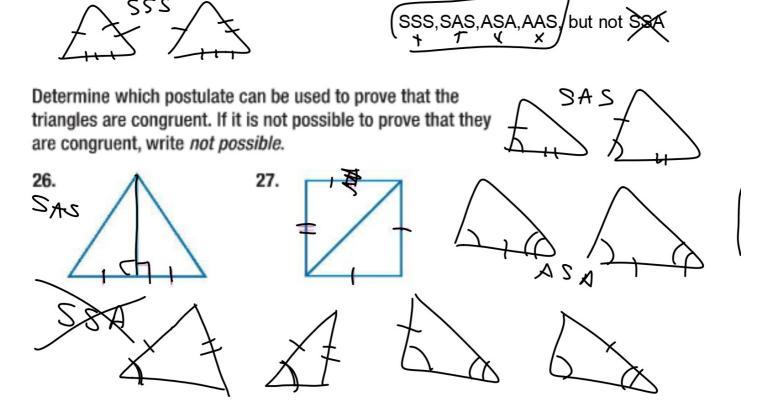
Dxyz FAJKL

4_**4** Proving Triangles Congruent—SSS, SAS

Determine whether $\triangle ABC \cong \triangle XYX$ Explain.

24. A(5, 2), B(1, 5), C(0, 0), X(-3, 3), Y(-7, 6), Z(-8, 1)



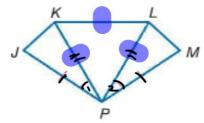


Write a two-column proof.

Given: $\triangle \mathit{KPL}$ is equilateral.

 $\overline{JP} \cong \overline{MP}$, $\angle JPK \cong \angle MPL$

Prove: $\triangle JPK \cong \triangle MPL$



Statements	Reasons
1 △KPL is equilateral.	1. Given
2. $\overline{PK} \cong \overline{PL}$	2. Def. of Equilateral △
3. $\overline{JP} \cong \overline{MP}$	3. Given
4. ∠JRK≅ ∠MPL	4. Given
5. $\triangle JPK \cong \triangle MPL$	5. SAS

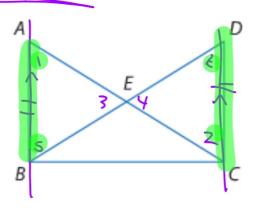
Can be helpful to un-overlap figures

4-5 Proving Triangles Congruent—ASA, AAS

Write a two-column proof.

29. Given: $\overline{AB} \parallel \overline{DC}, \overline{AB} \cong \overline{DC}$

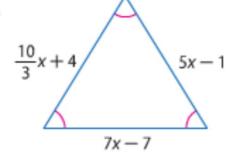
Prove: $\triangle ABE \cong \triangle CDE$



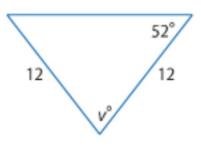
4-6 Isosceles and Equilateral Triangles

Find the value of each variable.

31.



32.



Example 8

Position and label an equilateral triangle $\triangle XYZ$ with side lengths of 2a.

