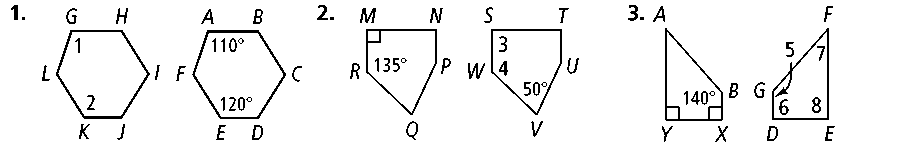
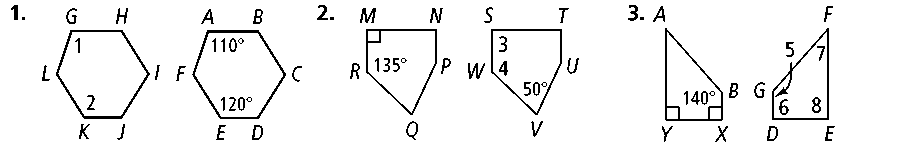
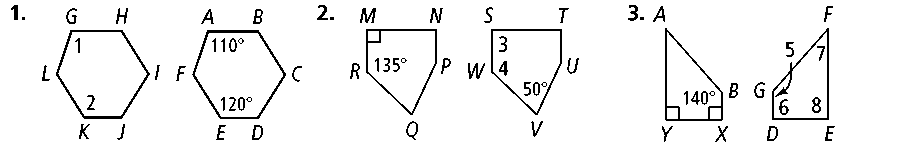
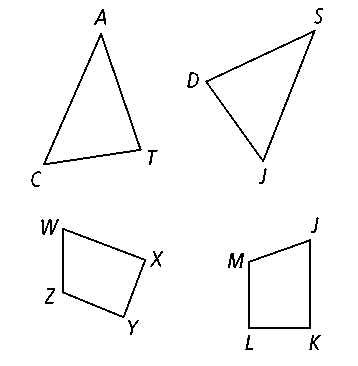
**Each pair of polygons is congruent. Find the measures of the numbered angles.**

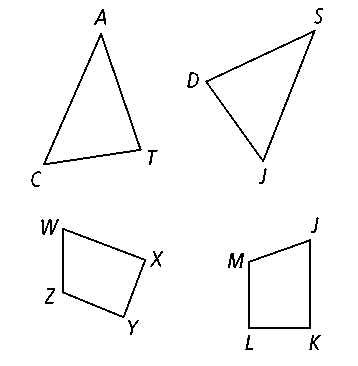
**1. 2. 3.**

**Δ*CAT*** ≅ **Δ*JSD.* List each of the following.**

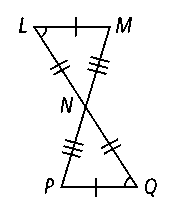
**4.** three pairs of congruent sides

**5.** three pairs of congruent angles

***WXYZ*** ≅ ***JKLM.* List each of the following.**

**6.** four pairs of congruent sides

**7.** four pairs of congruent angles

**10. Develping Proof** Use the information given in the diagram. Give a reason that each statement is true.

**a.** ∠*L* ≅ /*Q*

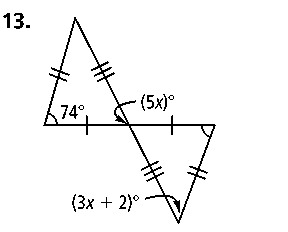
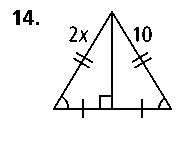
**b.** ∠*LNM* ≅ ∠*QNP*

**c.** ∠*M* ≅ ∠*P*

**d. **

**e.** Δ*LNM* ≅ Δ*QNP*

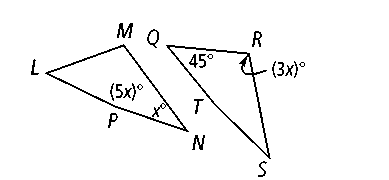
**Algebra Find the values of the variables.**

**13. 14.**

**Algebra *ABCD* ≅** ***FGHJ.* Find the measures of the given angles or lengths of the given sides.**

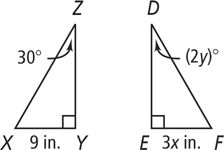
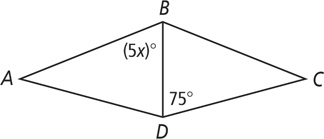
**15.** *m*∠*B* = 3*y, m*∠*G* = *y* + 50 **16.** *CD* = 2*x* + 3; *HJ* = 3*x* + 2

**17.** *m*∠*C* = 5*z* + 20, *m*∠*H* = 6*z* + 10 **18.** *AD* = 5*b* + 4; *FJ* = 3*b* + 8

**19.** *LMNP* ≅ *QRST.* Find the value of *x.*

**Algebra Find the values of the variables.**

**20.** Δ*XYZ* ≅Δ*FED* **21.** Δ*ABD* ≅Δ*CDB*



**Algebra** Δ***FGH*** ≅ Δ***QRS.* Find the measures of the given angles or the lengths of the given sides.**

**22.** *m∠F = x +* 24; *m∠Q =* 3*x* **23. ** *=* 3*x* − 2;  *= x +*6