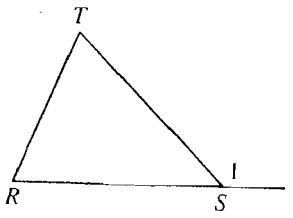
Geometry HW # _____ Name _____
Chapter 6 Practice

Date _____

1. In Δ RST, m∠1 > m∠ _____.

2. If m∠ 1 = 135 and m∠ R = 60, then the longest side of Δ RST is _____.



3. Write the contrapositive, converse, and inverse of the given statement. Then classify each statement as true or false.

Given: If ∠ A and ∠ B are right angles, then they are supplements.

Contrapositive: _____

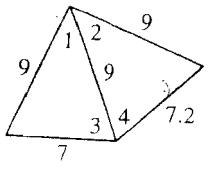
Converse: _____

Inverse: _____

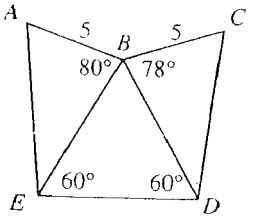
Complete the statements with < , = , or > .

4. m∠ 1 ____ m∠ 2

m∠ 3 ____ m∠ 4

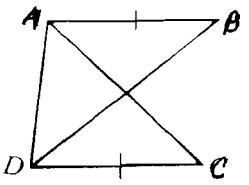


5. AE ____ CD



6. m∠ BAD = 95,
m∠ CDA = 87

CA _____ BD

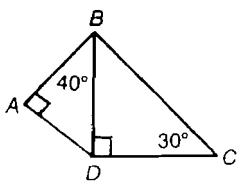


7. If 2 sides of a triangle measure 4 and 12, then the third side must be greater than _____ but less than _____.

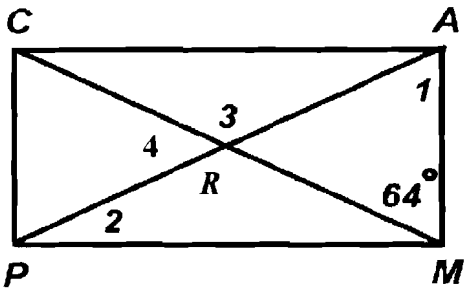
8. If the base of an isosceles triangle is 19, then the length of each leg must be greater than _____.

9. Name the shortest segment. _____

10. Name the longest segment. _____



11. Given: rectangle *CAMP*

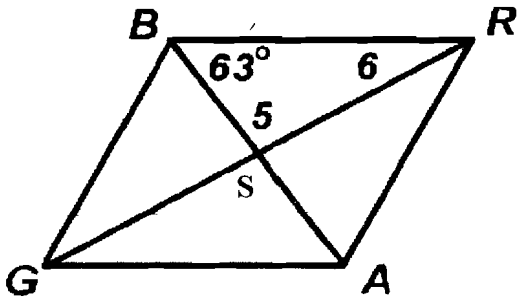


m∠ 1 = _____, m∠ 2 = _____,

m∠ 3 = _____, m∠ 4 = _____

If $CM = 24$ and $PR = x^2 + x$, find x. _____

12. Given: rhombus *BRAG*

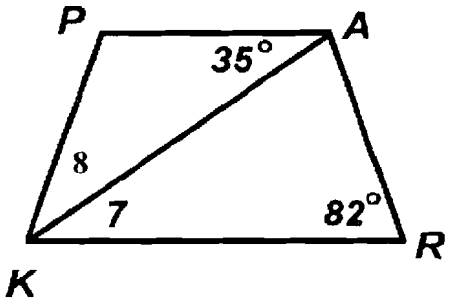


m∠ 5 = _____, m∠ 6 = _____,

m∠ *GAR* = _____, m∠ *BGA* = _____

If $GS = 2x + 7$ and $GR = 30$, find x. _____

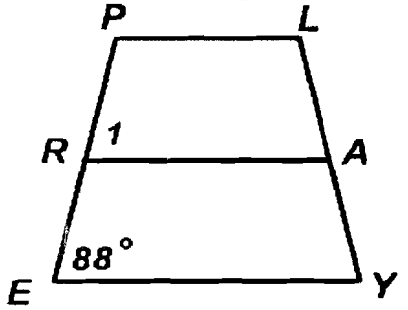
13. Given: Isosceles trapezoid *PARK*



m∠ *PAR* = _____, m∠ 7 = _____,

m∠ 8 = _____, m∠ *P* = _____

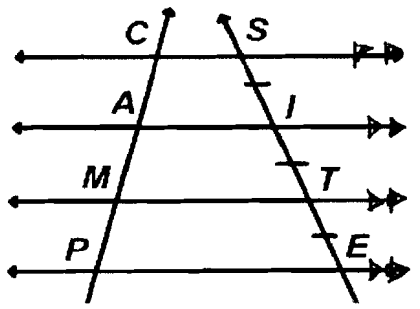
14. Given isosceles trapezoid *PLYE* , $PR = RE = LA = AY$



m∠ *L* = _____, m∠ *RAY* = _____,

If $PL = x + 2$, $RA = 2x - 3$, and $EY = 2x$, find *RA*. _____

15.



If $CM = 5x + 2$ and $AP = 2x + 14$, CM = _____