Name:_____

7.5 Practice Problems
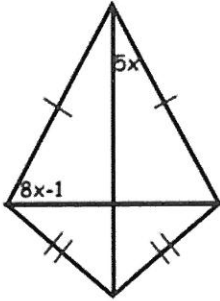
1. Given: Isosceles trapezoid ABCD, m∠BAC = 30° and m∠DBC = 85°

m∠1=_____   m∠5=_____   m∠ ADC =_____

m∠2=_____   m∠6=_____   m∠ BCD =_____

m∠3=_____   m∠7=_____   m∠ DAB =_____

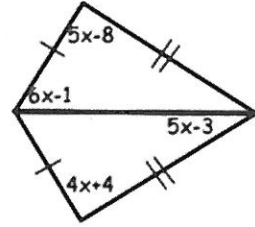m∠4 =_____   m∠8 =_____   m∠CBA=_____
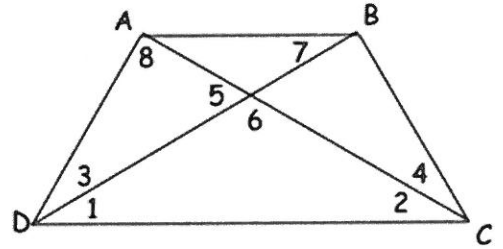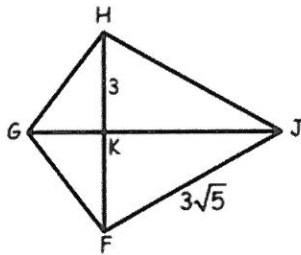
2. Find x.
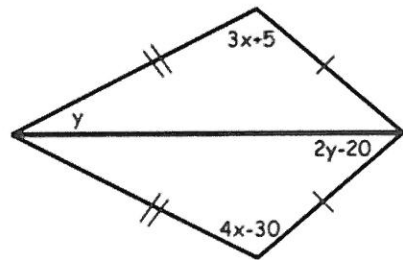   x = _____

3. Find x
   x = _____
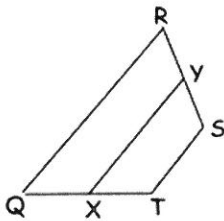
4. Kite FGHJ
   KF = _____
   KJ = _____

5. x = _____
   y = _____

$\overline{XY}$ is the median of trapezoid QRST in problems 6-11.
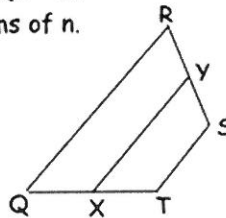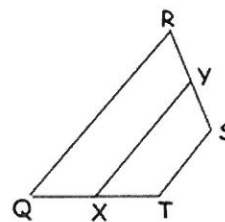
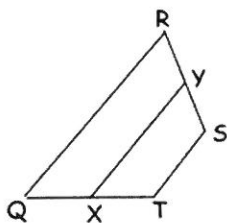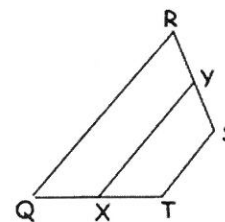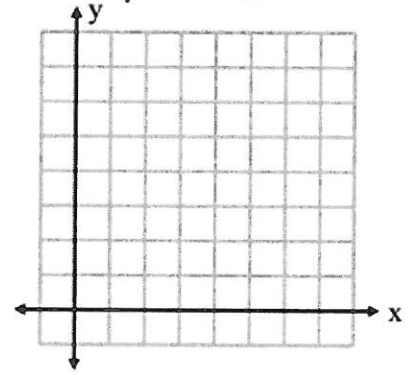| 6. XY=18 and TS = 7. Find QR.	7. TS = n and QR = 6. Find XY in terms of n.	8. XY=16. Find TS+QR.
9. TX = ½ (SR) and m∠T=130. Find m∠R.	10. ST = a and QR = 2b. Find XY.	11. QX=SY and m∠TXY = 45. Find m∠R.
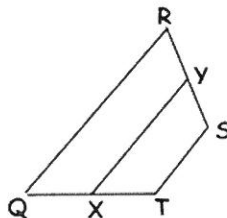
Graph and label each quadrilateral with the given vertices. Then determine the most precise name for each quadrilateral. Explain why you chose the name you did. Show work to support the explanations.
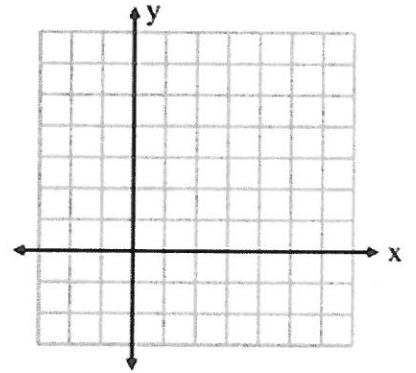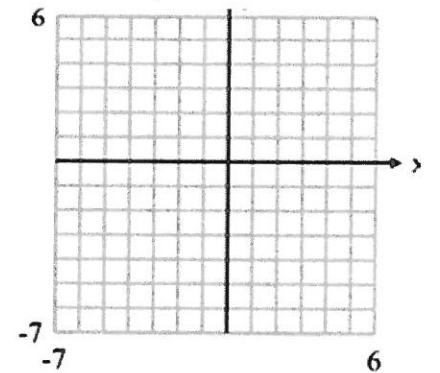
12. A(3,5), B(7,6), C(6,2), D(2,1)

13. W(-1,1), X(0,2), Y(1,1), Z(0,-2)
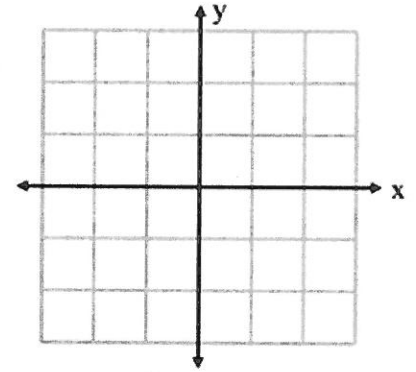
14. J(2,1), K(5,4), L(7,2), M(2,-3)

15. E(-3,1), F(-7,-3), G(6,-3), H(2,1)

16. **ATTENDING TO PRECISION** In trapezoid *PQRS*, $\overline{PQ} \parallel \overline{RS}$ and $\overline{MN}$ is the midsegment of *PQRS*. If $RS = 5 \cdot PQ$, what is the ratio of *MN* to *RS*?

(A) 3 : 5   (B) 5 : 3

(C) 1 : 2   (D) 3 : 1