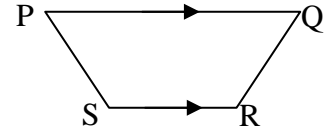


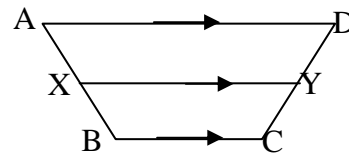
**PQRS is an isosceles trapezoid**

- 1) Name the bases of trapezoid PQRS. \_\_\_\_\_
- 2) Name the legs of trapezoid PQRS. \_\_\_\_\_
- 3) Name two pairs of congruent angles. \_\_\_\_\_  $\cong$  \_\_\_\_\_, \_\_\_\_\_  $\cong$  \_\_\_\_\_
- 4) Name a pair of congruent segments. \_\_\_\_\_  $\cong$  \_\_\_\_\_



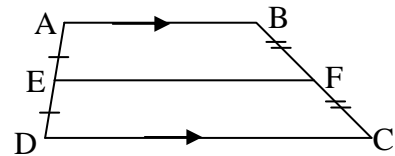
**Isosceles trapezoid ABCD.  $\overline{XY}$  is a midsegment**

- 5) If  $AX = 4$ , then  $CD =$  \_\_\_\_\_
- 6) If  $m\angle ABC = 110^\circ$ , then  $m\angle BAD =$  \_\_\_\_\_
- 7) If  $m\angle BAD = 65^\circ$ , then  $m\angle CDA =$  \_\_\_\_\_
- 8) If  $m\angle DCB = 105^\circ$ , then  $m\angle DAB =$  \_\_\_\_\_



**Trapezoid ABCD. Show all work.  $\overline{EF}$  is a midsegment**

- 9)  $m\angle B$  is three times  $m\angle C$ . Find  $m\angle B$  and  $m\angle C$ .  
(Hint: Let  $m\angle C = x^\circ$ )



- 10) If  $m\angle A = (2x)^\circ$ ,  $m\angle D = (x - 12)^\circ$ ,  $m\angle B = y^\circ$  and  $m\angle C = (y - 70)^\circ$ , find measures of all four angles.

Kite  $GHIJ$ . (True or False)

11)  $m\angle GKJ = 90^\circ$  \_\_\_\_\_

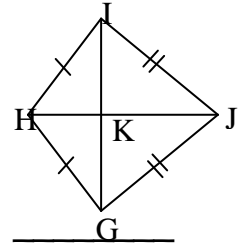
13)  $\angle HIJ \cong \angle HGJ$  \_\_\_\_\_

15)  $\angle IHG \cong \angle IJG$  \_\_\_\_\_

12)  $\overline{HJ} \cong \overline{IG}$  \_\_\_\_\_

14)  $\overline{HJ}$  and  $\overline{IG}$  bisect each other. \_\_\_\_\_

16)  $\overline{HJ}$  bisects  $\overline{IG}$ . \_\_\_\_\_



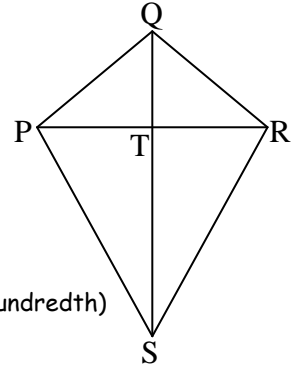
Refer to kite  $PQRS$  with  $PQ = QR = 10$ ,  $PR = 16$ ,  $RS = 12$ .

17)  $TR =$  \_\_\_\_\_

18)  $QT =$  \_\_\_\_\_

19)  $TS =$  \_\_\_\_\_ (Simplest Radical form)

20)  $QS =$  \_\_\_\_\_ (rounded to nearest hundredth)



21) If  $m\angle QRT = 40^\circ$ , then  $m\angle PQR =$  \_\_\_\_\_.

22) If  $m\angle PSR = 30^\circ$ , then  $m\angle TRS =$  \_\_\_\_\_.

Refer to kite  $WXYZ$ .

23)  $m\angle VYZ =$  \_\_\_\_\_

24)  $m\angle XWZ =$  \_\_\_\_\_

25)  $m\angle VXY =$  \_\_\_\_\_

26)  $m\angle WXY =$  \_\_\_\_\_

27)  $m\angle WZY =$  \_\_\_\_\_

