

PAP Geometry
Kites & Trapezoids HW

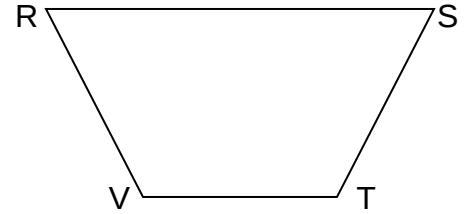
Name _____

Date _____ Period _____

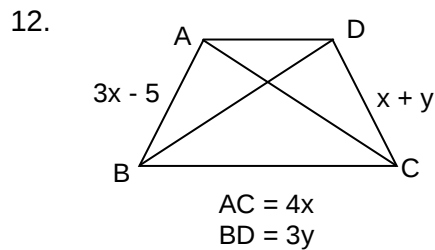
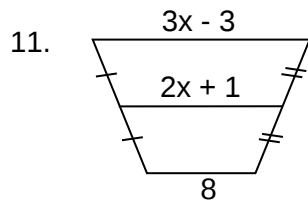
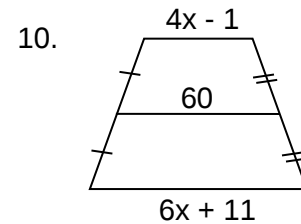
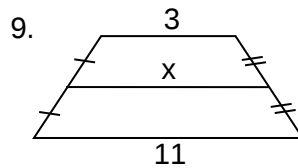
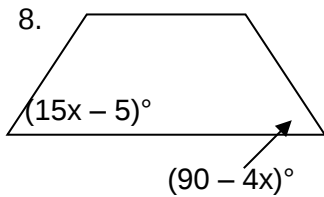
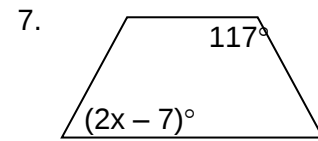
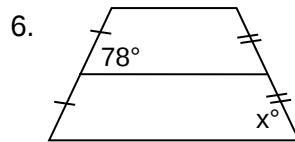
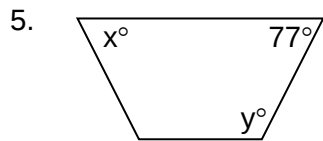
Show work. Round answers to the hundredth if necessary.

RSTV is an isosceles trapezoid whose diagonals meet at W. Determine if each statement is true or false.

- _____ 1. $\overline{TR} \perp \overline{SV}$
 _____ 2. $\angle TRV \cong \angle VST$
 _____ 3. $\angle RVT \cong \angle STV$
 _____ 4. $\angle SRV$ and $\angle TVR$ are supplementary

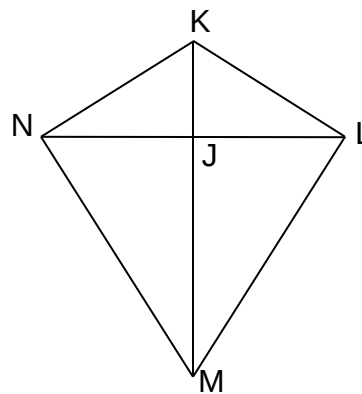


Determine the value of the variables in each isosceles trapezoid.

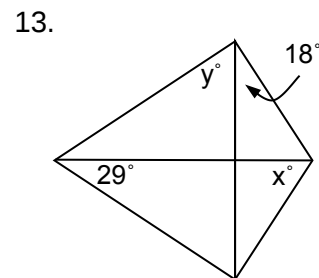
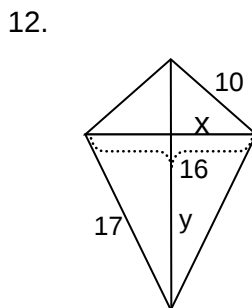
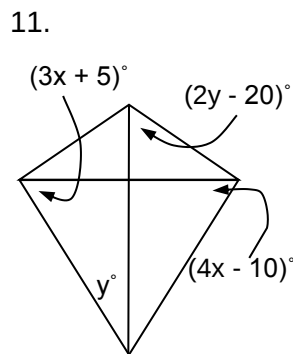
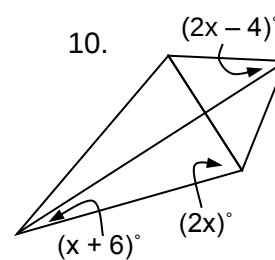
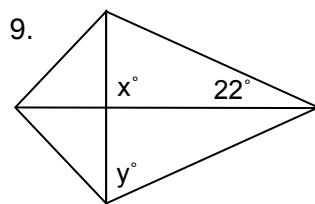
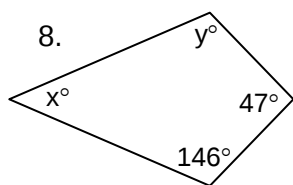


KLMN is a kite. Determine if each statement is true or false.

- _____ 1. $\overline{KM} \perp \overline{LN}$
 _____ 2. $\angle KJN \cong \angle MJL$
 _____ 3. $\angle NKM \cong \angle KMN$
 _____ 4. $\overline{KJ} \cong \overline{JM}$
 _____ 5. $\overline{JN} \cong \overline{JL}$
 _____ 6. $\overline{KN} \cong \overline{LK}$
 _____ 7. $\angle NKM \cong \angle LKM$



Determine value of the variables in each kite.



14. Given kite RSTW.
 a. If $SW = 8$, find RT to nearest tenth.
 b. If $RZ = 8$, find SW to nearest tenth.

