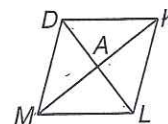


8-5 Skills Practice

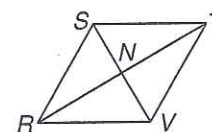
Rhombi and Squares

Use rhombus $DKLM$ with $AM = 4x$, $AK = 5x - 3$, and $DL = 10$.



1. Find x .
2. Find AL .
3. Find $m\angle KAL$.
4. Find DM .

Use rhombus $RSTV$ with $RS = 5y + 2$, $ST = 3y + 6$, and $NV = 6$.



5. Find y .
6. Find TV .
7. Find $m\angle NTV$.
8. Find $m\angle SVT$.
9. Find $m\angle RST$.
10. Find $m\angle SRV$.

COORDINATE GEOMETRY Given each set of vertices, determine whether $\square QRST$ is a *rhombus*, a *rectangle*, or a *square*. List all that apply. Explain your reasoning.

11. $Q(3, 5)$, $R(3, 1)$, $S(-1, 1)$, $T(-1, 5)$
12. $Q(-5, 12)$, $R(5, 12)$, $S(-1, 4)$, $T(-11, 4)$
13. $Q(-6, -1)$, $R(4, -6)$, $S(2, 5)$, $T(-8, 10)$
14. $Q(2, -4)$, $R(-6, -8)$, $S(-10, 2)$, $T(-2, 6)$

8-6 Skills Practice

Trapezoids

COORDINATE GEOMETRY $ABCD$ is a quadrilateral with vertices $A(-4, -3)$, $B(3, -3)$, $C(6, 4)$, $D(-7, 4)$.

1. Verify that $ABCD$ is a trapezoid.
2. Determine whether $ABCD$ is an isosceles trapezoid. Explain.

COORDINATE GEOMETRY $EFGH$ is a quadrilateral with vertices $E(1, 3)$, $F(5, 0)$, $G(8, -5)$, $H(-4, 4)$.

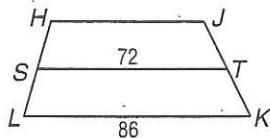
3. Verify that $EFGH$ is a trapezoid.
4. Determine whether $EFGH$ is an isosceles trapezoid. Explain.

COORDINATE GEOMETRY $LMNP$ is a quadrilateral with vertices $L(-1, 3)$, $M(-4, 1)$, $N(-6, 3)$, $P(0, 7)$.

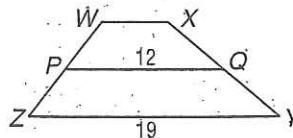
5. Verify that $LMNP$ is a trapezoid.
6. Determine whether $LMNP$ is an isosceles trapezoid. Explain.

ALGEBRA Find the missing measure(s) for the given trapezoid.

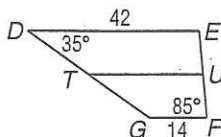
7. For trapezoid $HJKL$, S and T are midpoints of the legs. Find HJ .



8. For trapezoid $WXYZ$, P and Q are midpoints of the legs. Find WX .



9. For trapezoid $DEFG$, T and U are midpoints of the legs. Find TU , $m\angle E$, and $m\angle G$.



10. For isosceles trapezoid $QRST$, find the length of the median, $m\angle Q$, and $m\angle S$.

