Chapter 6: Quadrilaterals	Name:
Lesson 6-5: Trapezoids and Kites	Date:
Homework	Period:



2. Find the missing measurements of Kite ABCD.

AB = 8 $BC = ___$ $CD = ____$ DA = 14 $AC = ___$ $DB = ___$ AE = 6 BE = 5 $CE = ___$ DE = 12 $m < ABE = __$ $m < EBC = __$ $m < BCE = _$ $m < ECD = __$ $m < ECD = _$ $m <ECD = _$ $m < ECD = _$ $m <ECD = _$

JKLM is an isosceles trapezoid. Use the given information to solve each problem.

L

Μ

D

С

Κ

J

- 3. Find DC if JK=9 and LM=18.
- 4. Find JK if CD=23 and LM=30.
- 5. Find m \angle JKD, if m \angle KDC = 47.
- 6. Find m \angle L if m \angle KJC =111.
- 7. What is the value of x if KL=144, and DL = 2x?
- 8. What is the value of x if $m \angle K = 115$ and $m \angle L = 3x + 26$?
- 9. What is the value of x if $m \angle J = 5x 12$ and $m \angle DCM = x + 26$?
- 10. What is the value of x if JK=2x-4, LM=4x+8, and CD=53?

PQRS is a kite. Use the given information to solve each problem.

- 11. Find m \angle TRS if m \angle RST is 65°. 12. Find m \angle PQR if m \angle PST = 72 and m \angle TSR = 19 13. What is the value of x if QR=14x-7 and RS = 7x? 14. What is the value of x if PQ+QR = 58 and RS+SP = 23x - 189? P S What is the value of x if m \angle PQT = 4x - 3, m \angle TQR = x+8,
 - and m \angle PSR =149?