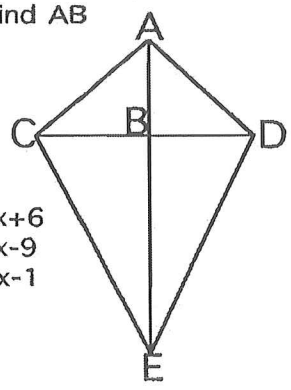
Name:_____ # Kites and Trapezoids Worksheet

Chap:Quads

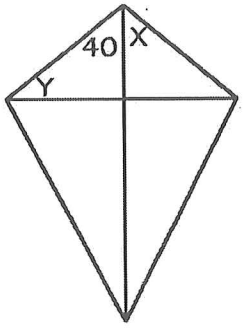
Assign: 3 to C

1.) Given Kite ADEC
Find AB

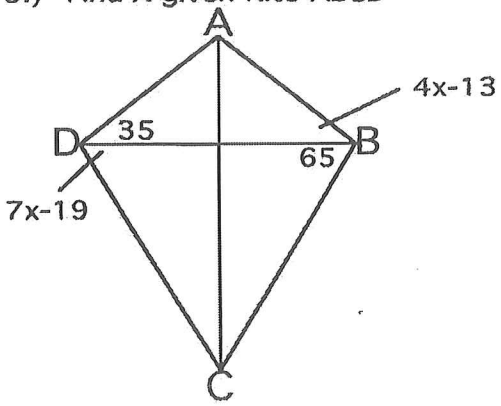


CB=3x+6
BD=8x-9
AB=7x-1

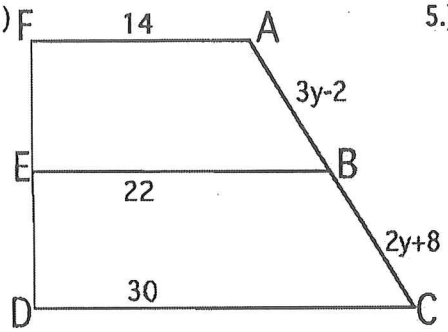
2.) Given Kite ABCD
Find X and Y



3.) Find X given Kite ABCD

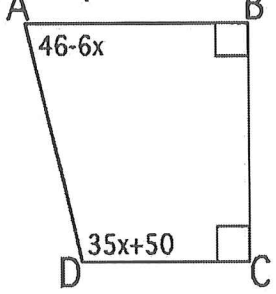


4.)



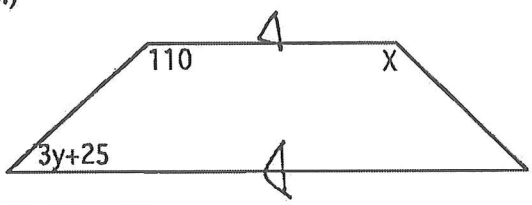
Find AB

5.) Trapezoid ABCD



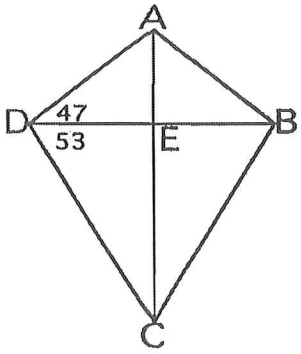
Find m<D =

6.)



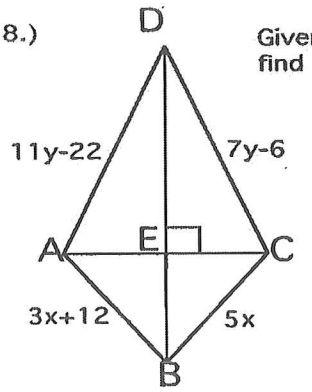
Find X and Y

7.) Given Kite ABCD



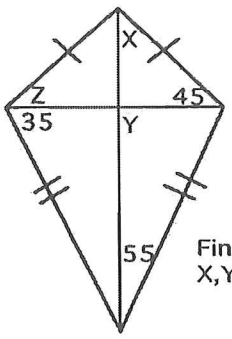
Find m<ABC
m<CED
m<CEB

8.)



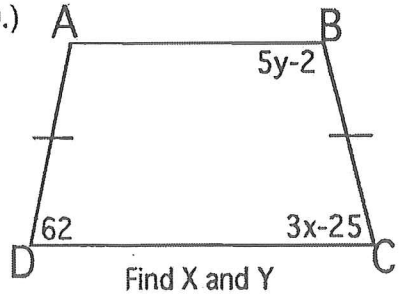
Given Kite DCBA
find AD and CB

9.)



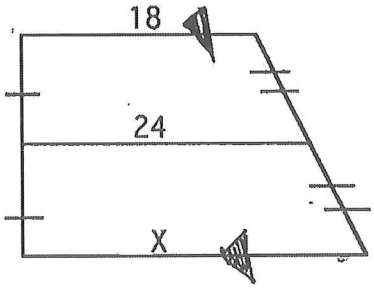
Find X,Y,Z

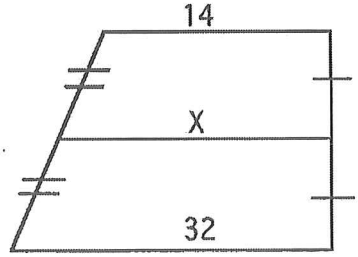
10.)



Find X and Y

11.)





Geometry Worksheet
Kites and Trapezoids

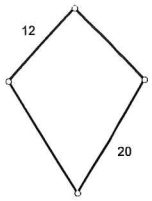
Name: _____

Period: _____

I. Kites and Trapezoids: Solve.

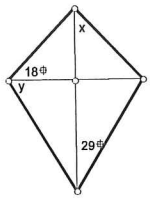
1. Kite

Perimeter =



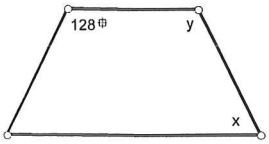
2. Kite

x = ____, y = ____



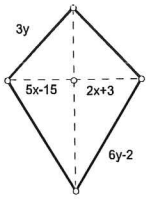
3. Isosceles Trapezoid

x = ____, y = ____



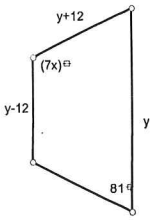
4. Kite's Perimeter=86 ft

x = ____, y = ____



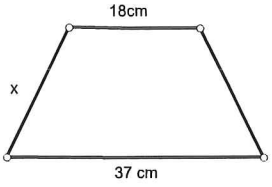
5. Isosceles Trapezoid's Perimeter=164 cm

x = ____, y = ____



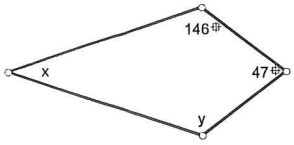
6. Isosceles Trapezoid's Perimeter=85 cm

x = _____



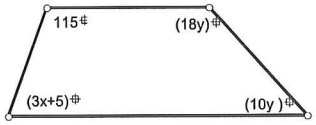
7. Kite

x = ____, y = ____



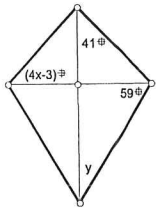
8. Trapezoid

x = ____, y = ____



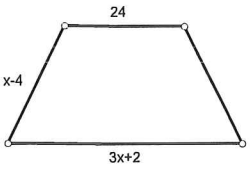
9. Kite

x = ____, y = ____

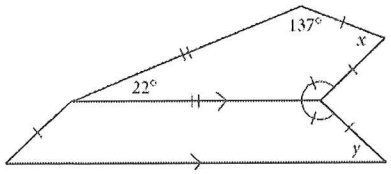


10. Isosceles Trapezoid's Perimeter=88 ft

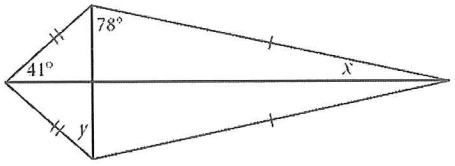
x = _____



11. $x =$ _____, $y =$ _____

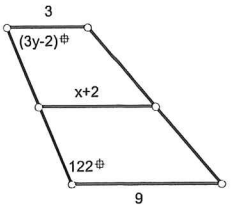


12. $x =$ _____, $y =$ _____



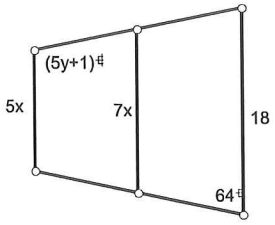
II. Midsegment of Trapezoids. Show your work.

13. Trapezoid with Midsegment



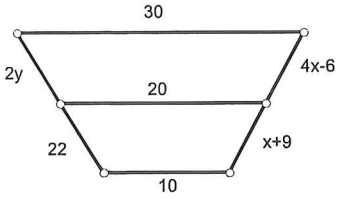
x = _____
y = _____

14. ISOSCELES TRAPEZOID with Midsegment



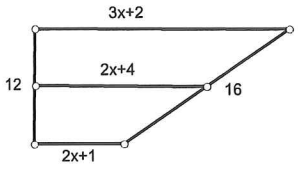
x = _____
y = _____

15. 10. Trapezoid with Midsegment



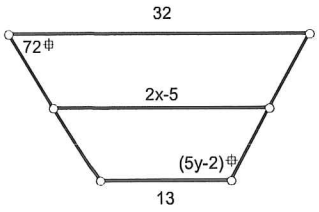
x = _____
y = _____

16. Trapezoid with Midsegment



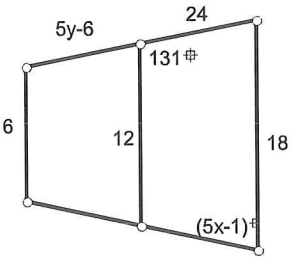
x = _____
Perimeter = _____

17. Isosceles Trapezoid with Midsegment



x = _____
y = _____

18. Isosceles Trapezoid with Midsegment



x = _____
y = _____

Geometry Worksheet
Kites and Trapezoids

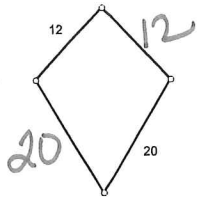
Name: Key

Period: _____

I. Kites and Trapezoids: Solve.

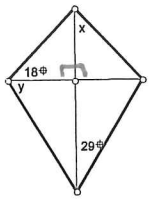
1. Kite

Perimeter = 64



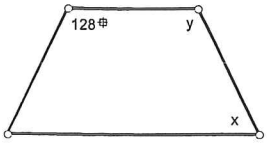
2. Kite

x = 72°, y = 61°



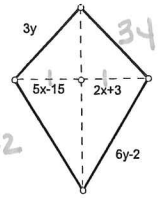
3. Isosceles Trapezoid

x = 52°, y = 128°



4. Kite's Perimeter=86 ft

x = 6, y = 5

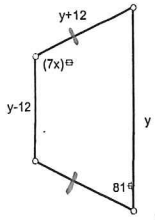


$2(6y-2)+2(3y)=86$
$12y-4+6y=86$
$18y-4=86$
$18y=90$
$y=5$

$5x-15=2x+3$
$3x=18$
$x=6$

5. Isosceles Trapezoid's Perimeter=164 cm

x = 14.14°, y = 38 cm

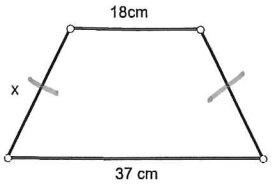


$y+12+y+y+12+y-12=164$
$4y+12=164$
$y=38$

$7x=99$

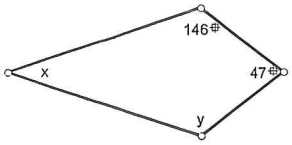
6. Isosceles Trapezoid's Perimeter=85 cm

x = 15



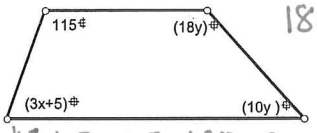
7. Kite

x = 21, y = 146°



8. Trapezoid

x = 20, y = 45/7

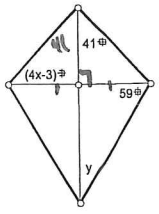


$18y+10y=180$
$y=\frac{45}{7}\approx 6.43$

$18+3x+5=180$ $3x=60$ $x=20$

9. Kite

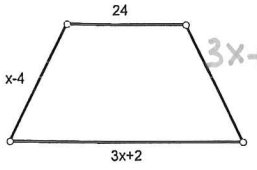
x = 13, y = 31°



$41+90°+4x-3=180$
$4x=52$
$x=13$

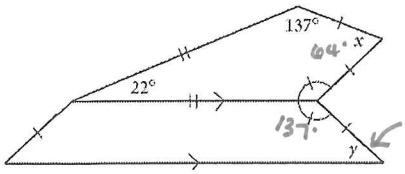
10. Isosceles Trapezoid's Perimeter=88 ft

x = 14



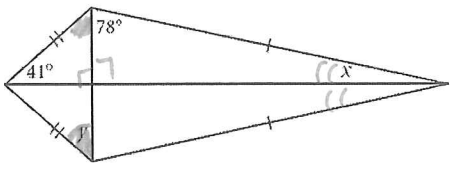
$3x+2+24+x-4+x-4=88$
$5x+18=88$
$5x=70$

11. x = 64°, y = 43



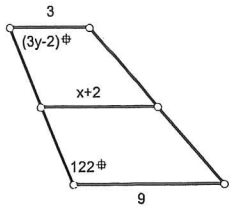
$137+y=180$
$y=43$

12. x = 12, y = 49



II. Midsegment of Trapezoids. Show your work.

13. Trapezoid with Midsegment

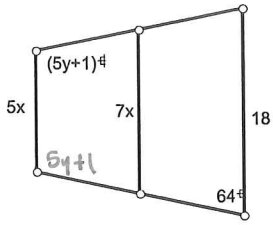


x = 4
y = 20

$x+2=\frac{1}{2}(9+3)$

$3y-2+122=180$

14. ISOSCELES TRAPEZOID with Midsegment

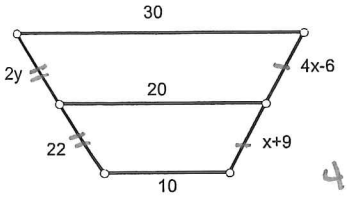


x = 2
y = 23

$7x=\frac{1}{2}(5x+18)$

$5y+1+64=180$

15. 10. Trapezoid with Midsegment

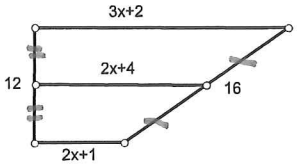


x = 5
y = 11

$4x-6=x+9$

$2y=22$

16. Trapezoid with Midsegment



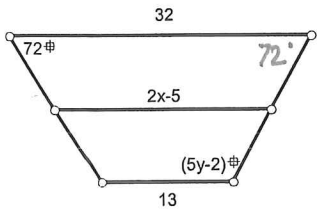
x = 5
Perimeter = 56

$2x+4=\frac{1}{2}(2x+1+3x+2)$

$4x+8=5x+3$

$x=5$

17. Isosceles Trapezoid with Midsegment



x = 13.75
y = 22

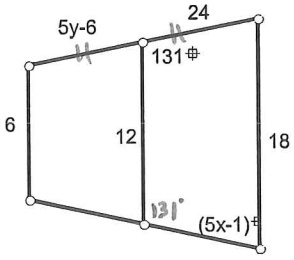
$2x-5=\frac{1}{2}(32+13)$

$4x-10=45$

$x=13.75$

$72+5y-2=180$

18. Isosceles Trapezoid with Midsegment



x = 10
y = 6

$5y-6=24$

$131+5x-1=180$

Name: Key

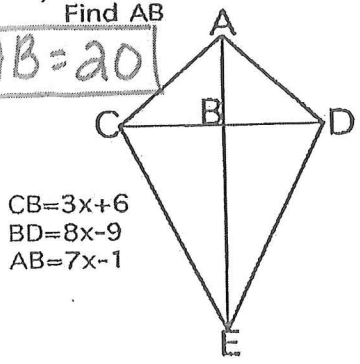
Kites and Trapezoids Worksheet

Chap: Quads

Assign: 3 rc

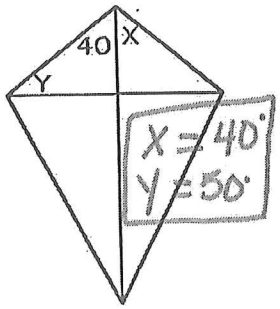
1.) Given Kite ADEC
Find AB

AB = 20



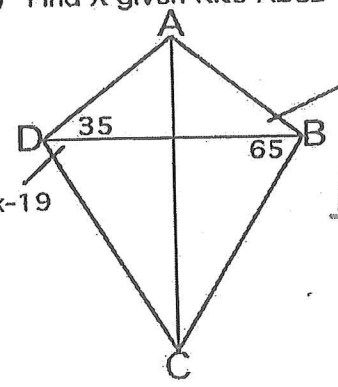
CB = 3x+6
BD = 8x-9
AB = 7x-1

2.) Given Kite ABCD
Find X and Y



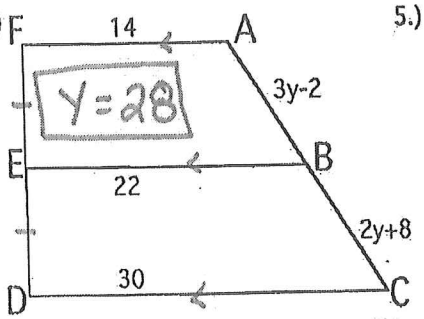
X = 40°
Y = 50°

3.) Find X given Kite ABCD



X = 12

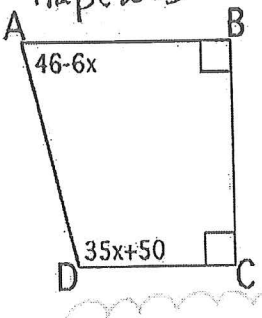
4.)



Y = 28

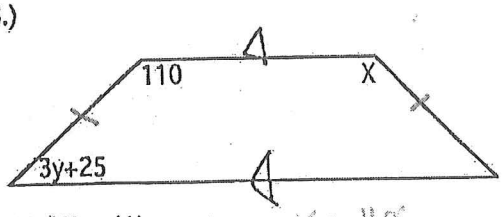
Find AB

5.) Trapezoid ABCD



Find m<D = 151.4°

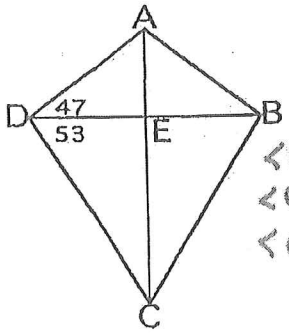
6.)



Find X and Y

X = 110°
Y = 15

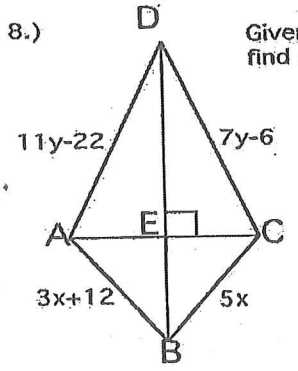
7.) Given Kite ABCD



Find m<ABC
m<CED
m<CEB

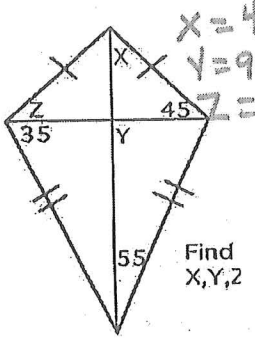
<ABC = 100°
<CED = 90°
<CEB = 90°

8.) Given Kite DCBA
find AD and CB



x = 6
y = 4

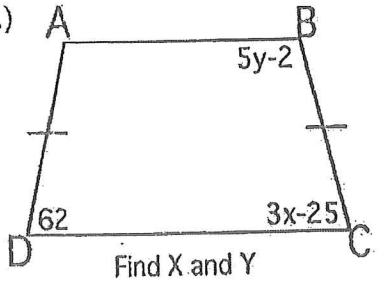
9.)



X = 45°
Y = 90°
Z = 45°

Find X, Y, Z

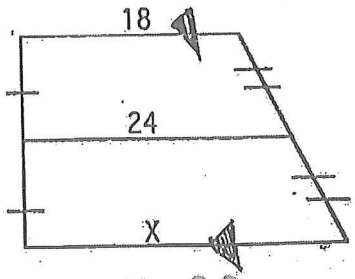
10.)



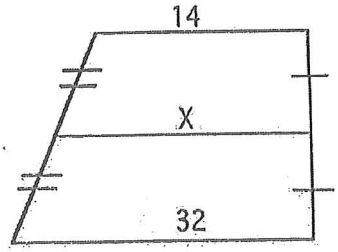
Find X and Y

x = 29
y = 24

11.)



X = 30



X = 23