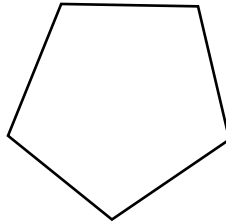Name:_____ Date:_____

Geometry –Chapter 7 Skills Review – March 16th – March 20th
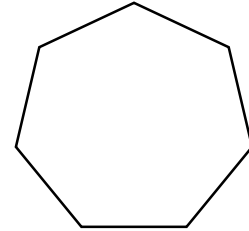
Find the sum of the measures of the interior angles and the sum of the exterior angles of the polygon.

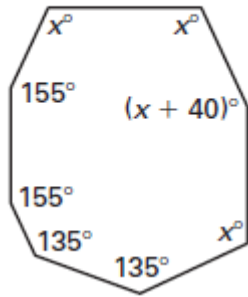1.)   20-gon   2.)   3.)

4.) If you have a regular polygon with 12 sides, what would each **interior** angle measure?

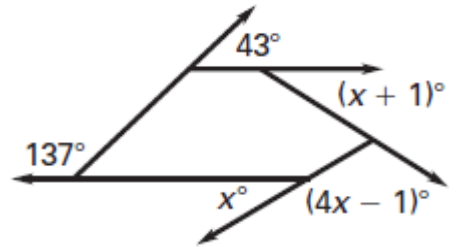5.) If you have a regular polygon with 12 sides, what would each **exterior** angle measure?

6.) Find the measure of each exterior angle of a regular polygon if the sum of the interior angles is 2520°.
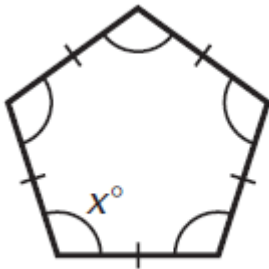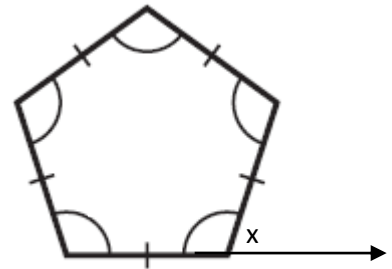
Find x.

7.)

8.)

9.)

10.)
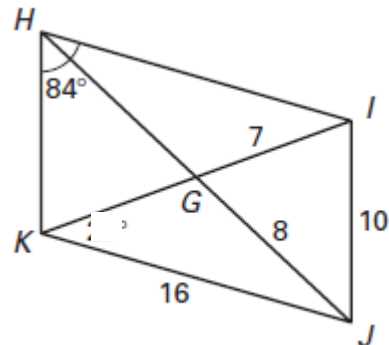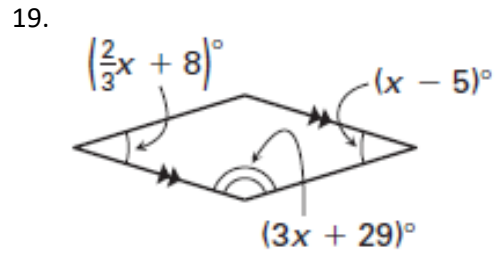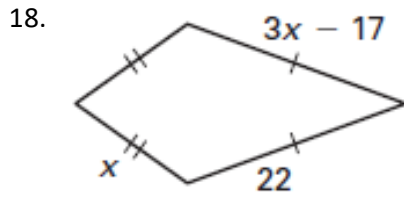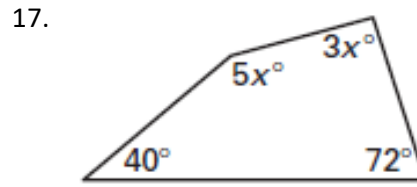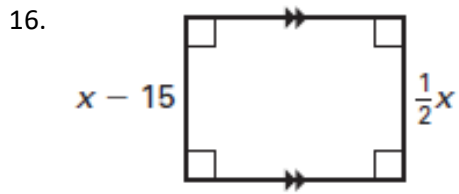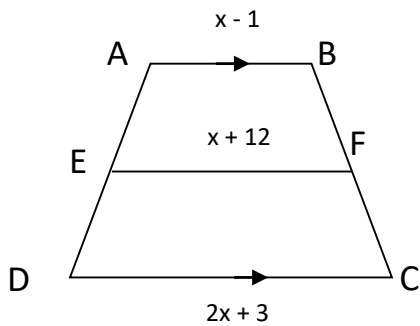

Use the diagram of *ABCD* to find the indicated measures.

11.   length of HI =_____
12. $m\angle IJK$ = _____
13. $m\angle HIJ$ = _____
14.   length of HG = _____
15.   length of KG = _____

Find the values of x.
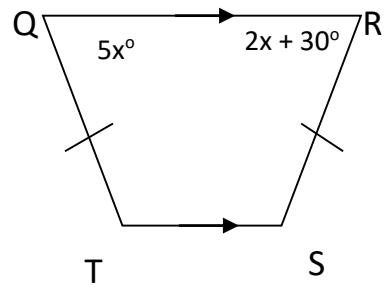
16.

$x - 15$

$\frac{1}{2}x$

17.

$5x°$

$3x°$

$40°$

$72°$

18.

$3x - 17$

x

22

19.

$\left(\frac{2}{3}x + 8\right)°$

$(x - 5)°$

$(3x + 29)°$

20. Find the length of midsegment, EF.

A   x - 1   B

x + 12   F

E

D

2x + 3   C

21. Find x.

Q   5x°   2x + 30°   R

T   S

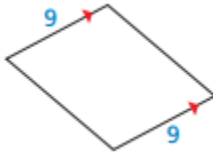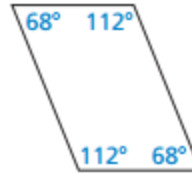**From the information given, can you determine that the quadrilateral is a parallelogram? If so, how.**
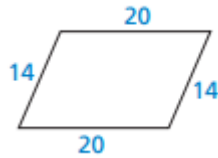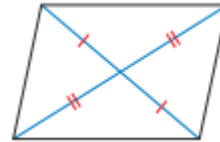
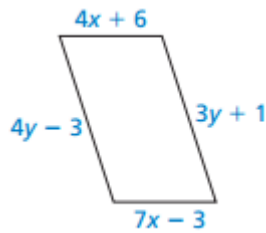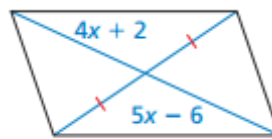22.

23.

68° 112°

112° 68°

24.

20

14   14

20

25.

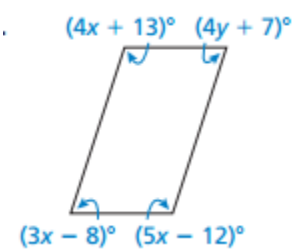**Find the values of the variables that makes the quadrilateral a parallelogram.**

26.

$4x + 6$

1

$4y - 3$ $3y + 1$

$7x - 3$

27.

$4x + 2$

1

$5x - 6$

28.

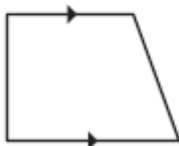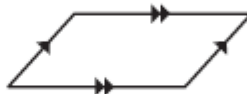$(4x + 13)°$ $(4y + 7)°$

$(3x - 8)°$ $(5x - 12)°$

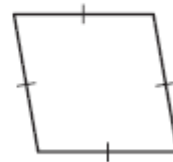**What special type of quadrilateral is shown?**

29.

30.

31

Find the indicated measure of the kite if angle BAD is 20 degrees and angle ABC is 153 degrees.

32.   angle ADC

33.   angle DCB

A   B

E

D   C