Geometry

Name_____

Review Topics for Exam #14 WS #2

Date_____ Period_____
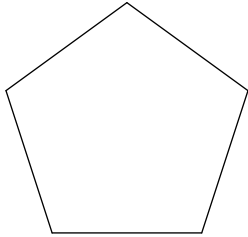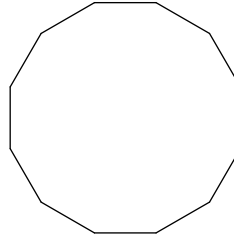
Find the interior angle sum for each polygon. Round your answer to the nearest tenth if necessary.
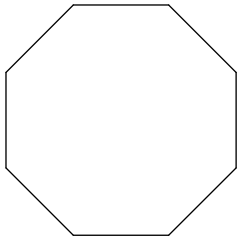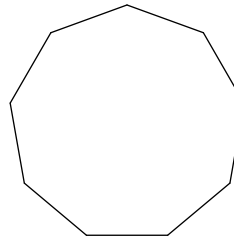
1)

2)

Find the measure of one interior angle in each regular polygon. Round your answer to the nearest tenth if necessary.
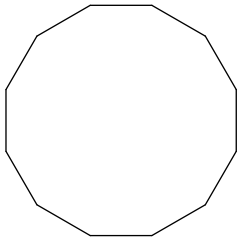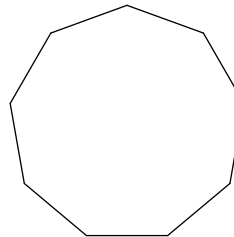
3)

4)

Find the measure of one exterior angle in each regular polygon. Round your answer to the nearest tenth if necessary.
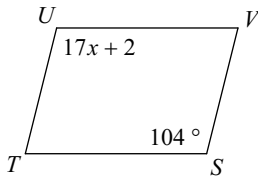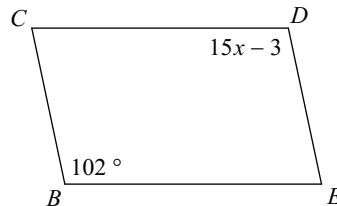
5)

6)
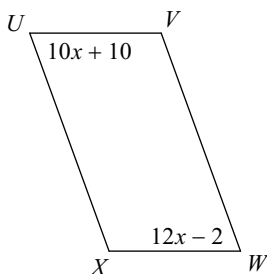
Solve for *x*. Each figure is a parallelogram.

7)
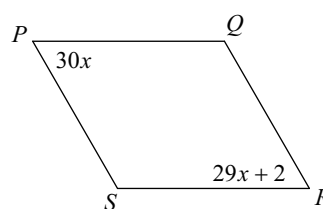
U   V

$17x + 2$

104 °

T   S

8)

C   D

$15x - 3$

102 °

B   E

Find the measurement indicated in each parallelogram.

9) Find $m\angle W$

U   V

$10x + 10$

$12x - 2$

X   W

10) Find $m\angle Q$

P   Q

$30x$

$29x + 2$

S   R

Solve for _x_. Each figure is a parallelogram.

11)

Y ——2x + 16—— V

X ——16—— W

12)

T ——19—— U

S 18x + 1 ——— V
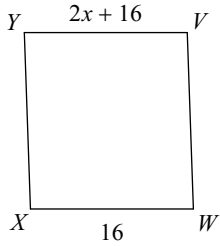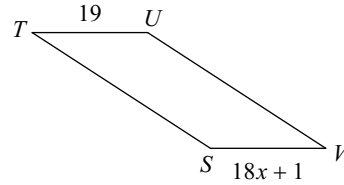
Find the measurement indicated in each parallelogram.

13) Find _KL_

M ——3x + 3—— J

L ——2x + 8—— K

14) Find _XW_
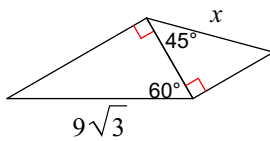
W ———— V

9x + 1   8x + 3

X ———— Y
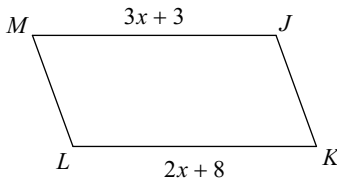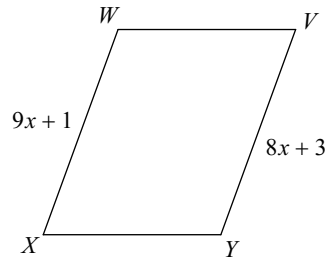
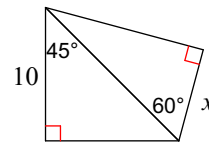15) The sum of the angles of a polygon is 1440 degrees. Determine the number of sides.

16) The sum of the angles of a polygon is 1800 degrees. Determine the number of sides.

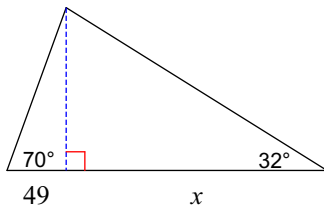**Find the missing side lengths. Leave your answers as radicals in simplest form.**
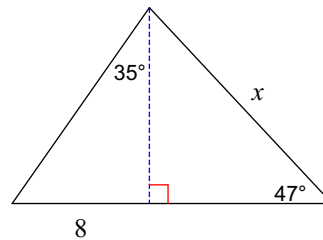
17)

x

45°

60°

$9\sqrt{3}$

18)

45°

10

60° x

Find the length of the side labeled _x_. Round intermediate values to the nearest tenth. Use the rounded values to calculate the next value. Round your final answer to the nearest tenth.
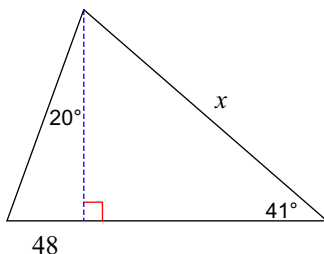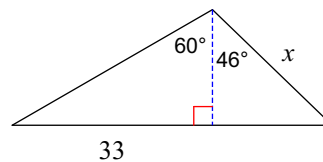
19)
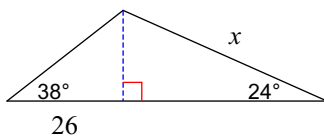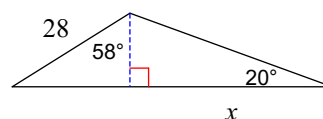
70°   32°

49   x

20)

35°

x

47°

8

21)

20°

x

41°

48

22)

60° 46° x

33

23)

x

38°   24°

26

24)

28

58°

20°

x

Answers to Review Topics for Exam #14 WS #2

1) 540°

2) 1800°

3) 135°

4) 140°

5) 30°

6) 40°

7) 6

8) 7

9) 70°

10) 120°

11) 0

12) 1

13) 18

14) 19

15) 10

16) 12

17) $\dfrac{9\sqrt{6}}{2}$

18) $5\sqrt{2}$

19) 215.4

20) 15.6

21) 201

22) 27.5

23) 49.9

24) 40.7