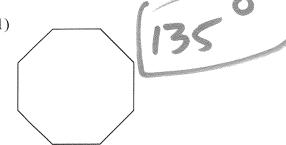
Geometry

Corrective Assignment Unit 5

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



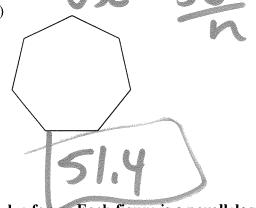


2) regular 16-gon



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

3)

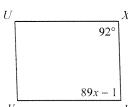


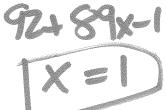
4) regular pentagon

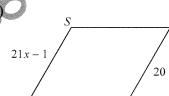


Solve for x. Each figure is a parallelogram.

5)





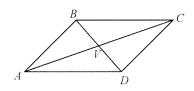


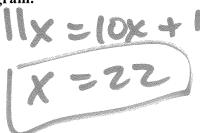


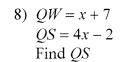
Find the measurement indicated in each parallelogram.

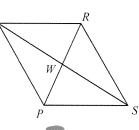
7)
$$BV = 11x$$

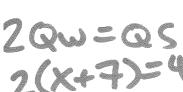
 $VD = 10x + 1$
Find BD

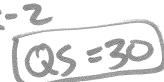




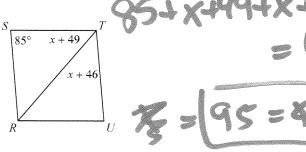




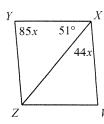




9) Find $m \angle STU$



10) Find $m \angle ZXW$



85x451444x=180

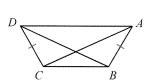
* 2XW = 44"

100 + 18x-10 =181

Solve for x. Each figure is a trapezoid.

11)
$$BD = 19$$

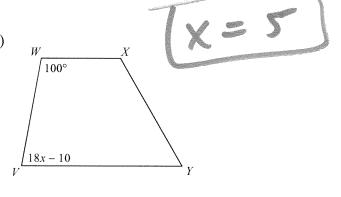
 $AC = 31 - x$



12)

14) MK = 3x - 20

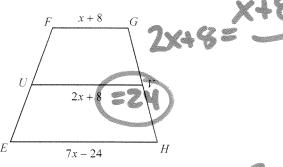
NL = 4x - 30Find MK



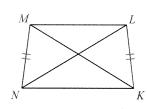
Find the length of the midsegment of each trapezoid.

Find the length of the diagonal indicated for the trapezoid.

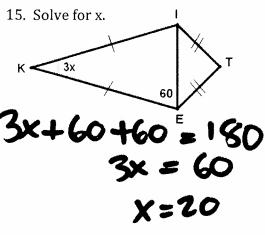
13)

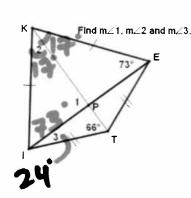


2(2x+8) = 8x-16



4x-30= 3x-20



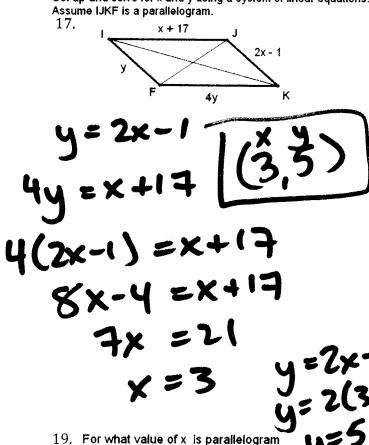


16.

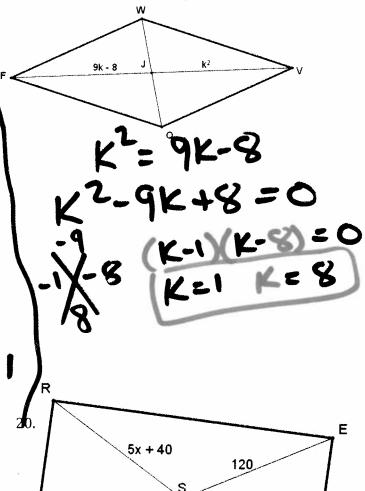
18.

$$m \ne 1 = \frac{90^{\circ}}{14^{\circ}}$$
 $m \ne 2 = \frac{14^{\circ}}{24^{\circ}}$

Set up and solve for x and y using a system of linear equations.



Set up and solve a quadratic equation to find the value of x in the following parallelogram.



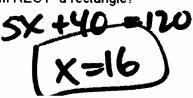
26x+30=90

14x - 35

RHOM a rhombus?

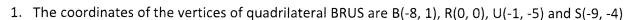
12x + 65

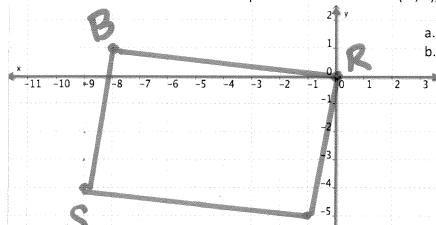
For what value of x is parallelogram RECT a rectangle?



Application and Extension

Show all of your work clearly and completely!





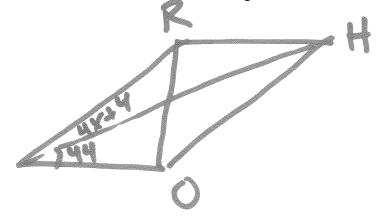
- Graph and label BRUS.
- Use the slope formula to determine if BRUS is a parallelogram.
- Examine your answer to part b and determine if BRUS is a rectangle. How do you know?

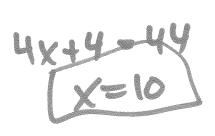
NEG RECIPRICA

d. Use the distance formula to determine whether BRUS's diagonals are congruent.

$$D = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Draw rhombus RHOM with diagonals \overline{RO} and \overline{MH} . Find x if $m \not\preceq HMO = 44^{\circ}$ and $m \not\preceq HMR = (4x + 4)^{\circ}$. 2.





Given: LENS and NGTH

Prove: $\angle S$ is supplementary to $\angle T$

Statements ARE 173 2. OPP &S Z7 ML 3. Vert. cal L's = 4. SUBT. PROP. 5. &1 is Supp &5 | 5. Consec Sides [] ONE Supp.
6. &1 is Supp & 1 | 6. Subt. Prop.

The car at each vertex of a Ferris Wheel holds a maximum of 5 people. The sum of the interior angles of the Ferris Wheel is 8280°. What is the maximum number of people the Ferris Wheel can hold?

= 48 x 5 ppl = 2401pl