
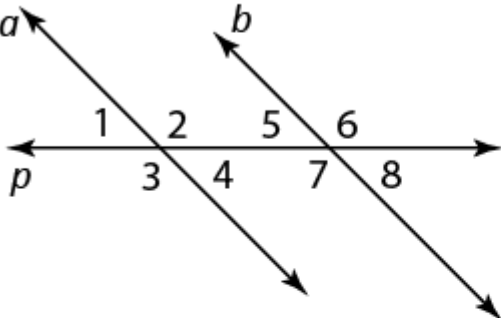


#	Question
1	<p>If $FN = 29$, what is the value of r?</p>  <p> <input type="radio"/> A. 4 <input type="radio"/> B. 5 <input type="radio"/> C. 6 <input type="radio"/> D. 7 </p>
2	<p>Line p intersects lines a and b. $a \parallel b$. By which theorem is $\angle 1 \cong \angle 8$?</p>  <p> <input type="radio"/> A. Alternate Exterior Angles Theorem <input type="radio"/> B. Alternate Interior Angles Theorem <input type="radio"/> C. Corresponding Exterior Angles Theorem <input type="radio"/> D. Corresponding Interior Angles Theorem </p>
3	<p>If a number is an integer, then it is either positive or negative.</p> <p>Which is the hypothesis of the conditional?</p> <p> <input type="radio"/> A. A number is an integer. <input type="radio"/> B. A number is either positive or negative. <input type="radio"/> C. A number is both positive and negative. <input type="radio"/> D. A number is not an integer. </p>

4

Fill in the blanks.

Parallel lines are in the same

Choose...

, but they do not

Choose...

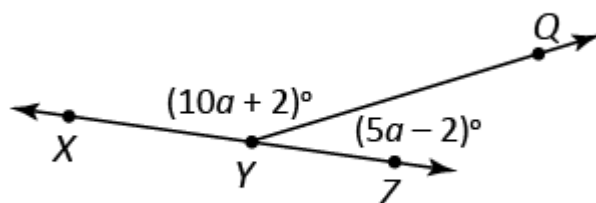
Choose...

figure
plane
angle
reflection

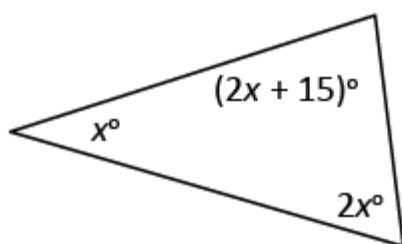
Choose...

translate
intersect
reflect
correspond

5

What is $m\angle XYQ$?
 $m\angle XYQ =$ $^\circ$

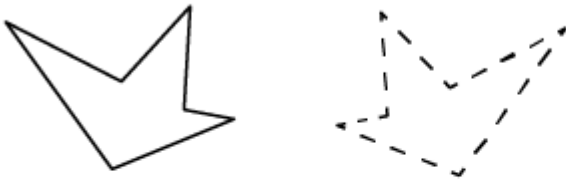
6

What is the value of x ?

- ☐ A. 24
- ☐ B. 33
- ☐ C. 72
- ☐ D. 75

7

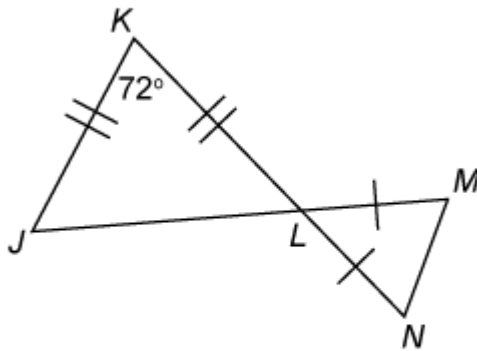
What rigid motion maps the solid-line figure onto the dotted-line figure?



- ☐ A. reflection
- ☐ B. rotation
- ☐ C. translation

8

$\triangle JKL$ and $\triangle LMN$ are shown.

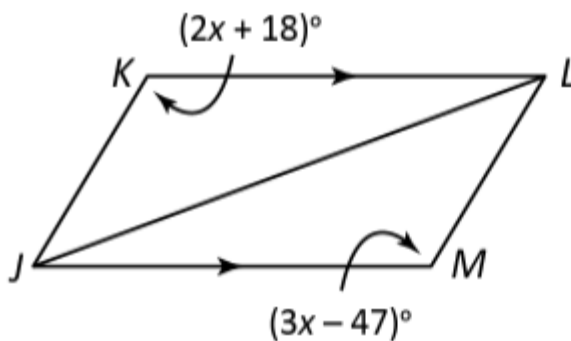


What is $m\angle KJL$?

$m\angle KJL =$ $^\circ$

9

To show that $\triangle JKL \cong \triangle LMJ$ by AAS, what must be the value of x ?



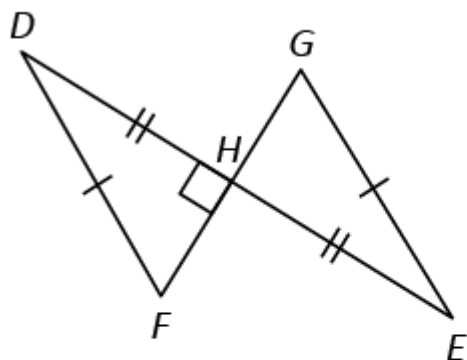
$x =$

Choose...

66
64
65
63

10

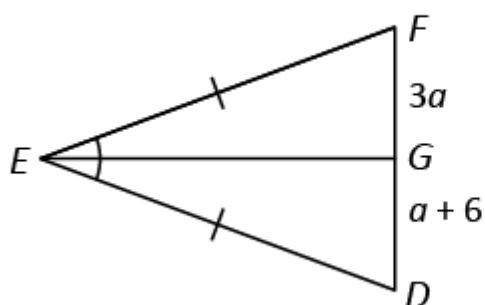
By which theorem can you conclude $\triangle DHF \cong \triangle EHG$?



- ☐ A. ASA
- ☐ B. HL
- ☐ C. SAS
- ☐ D. SSS

11

What is the length of DF ?



$$a =$$

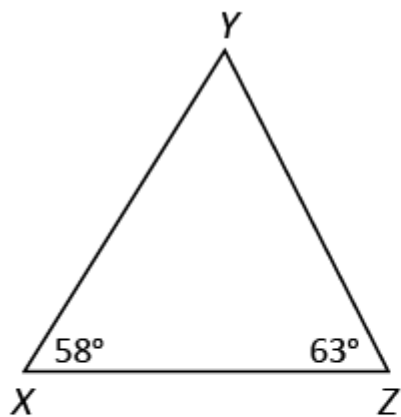
$$3a =$$

$$a + 6 =$$

$$DF = \boxed{}$$

12

Which lists the sides of $\triangle XYZ$ from shortest to longest? (Don't forget to find $m\angle Y$ first!)



- ☐ A. \overline{YZ} , \overline{XZ} , \overline{XY}
- ☐ B. \overline{XY} , \overline{XZ} , \overline{YZ}
- ☐ C. \overline{XZ} , \overline{YZ} , \overline{XY}
- ☐ D. \overline{XY} , \overline{YZ} , \overline{XZ}

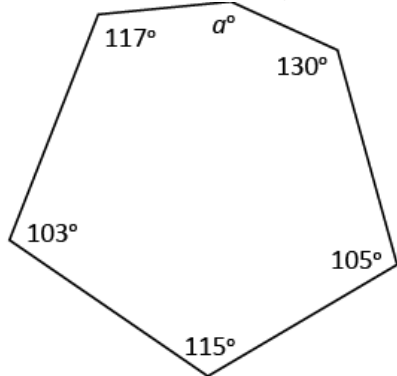
13

A triangle has two sides with lengths 31 centimeters and 39 centimeters. Which best describes the length of the third side?

- ☐ A. less than 8 cm
- ☐ B. greater than 70 cm
- ☐ C. less than 8 cm or greater than 70 cm
- ☐ D. greater than 8 cm and less than 70 cm

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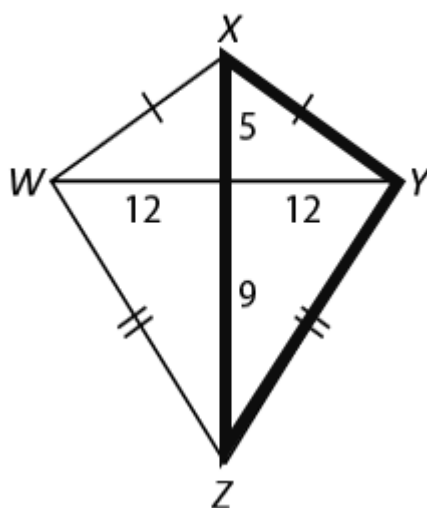
What is the value of a ? (First, find the sum of the interior for the polygon shown below.)



- ☐ A. 113
- ☐ B. 150
- ☐ C. 210
- ☐ D. 330

- 15 What is the measure of an interior angle of a regular 16-gon? (First, find the sum of the interior angles)
- ☐ A. 16.0°
 - ☐ B. 22.5°
 - ☐ C. 157.5°
 - ☐ D. 205.7°

- 16 What is the perimeter of $\triangle XYZ$?



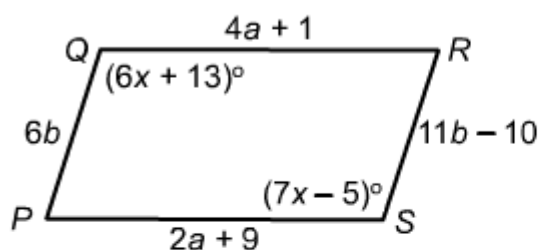
- ☐ A. 28
- ☐ B. 42
- ☐ C. 50
- ☐ D. 54

First find XY.

Next Find YZ.

What is the perimeter of $\triangle XYZ$.

- 17 Quadrilateral PQRS is shown.



What must the values of a and b be for PQRS to be a parallelogram?

- ☐ A. $a = 2, b = 5$
- ☐ B. $a = 17, b = 12$
- ☐ C. $a = 4, b = 2$
- ☐ D. not enough information

18

Is each statement true for all rectangles?

Diagonals are congruent.

Choose...

No or Yes

Diagonals bisect opposite angles.

Choose...

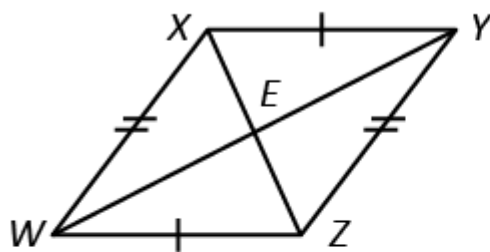
No or Yes

Diagonals are perpendicular.

Choose...

No or Yes

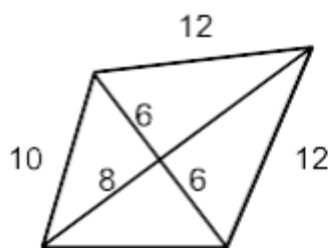
19

Which additional piece of information would show that quadrilateral $WXYZ$ is a rhombus?

- ☐ A. $EX = EZ$
- ☐ B. $WX \parallel YZ$
- ☐ C. $XZ \perp WY$
- ☐ D. $XY = WZ$

20

Give the most precise classification for each figure.



- ☐ A. quadrilateral
- ☐ B. parallelogram
- ☐ C. trapezoid
- ☐ D. kite