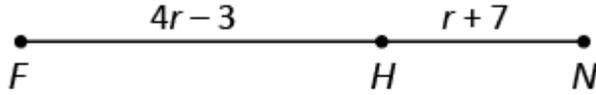
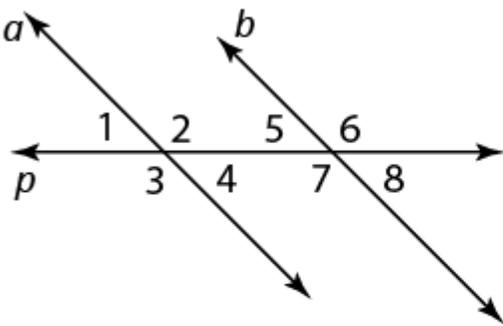


#	Question
1	<p>If $FN = 29$, what is the value of r?</p>  <p> <input type="radio"/> A. 4 <input type="radio"/> B. 5 <input type="radio"/> C. 6 <input type="radio"/> D. 7 </p>
2	<p>Line p intersects lines a and b. $a \parallel b$. By which theorem is $\angle 1 \cong \angle 8$?</p>  <p> <input type="radio"/> 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...

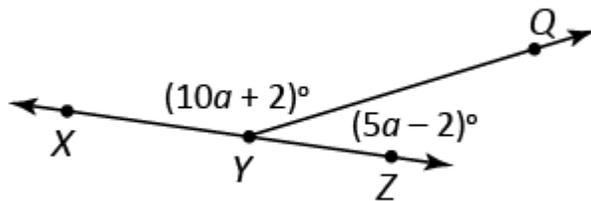
Choose...

figure
plane
angle
reflection

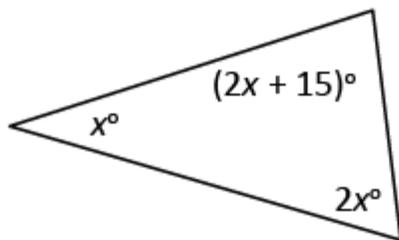
Choose...

translate
intersect
reflect
correspond

5

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

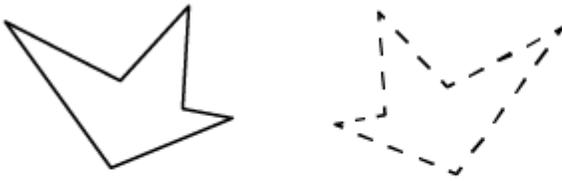
6

What is the value of x ?

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

7

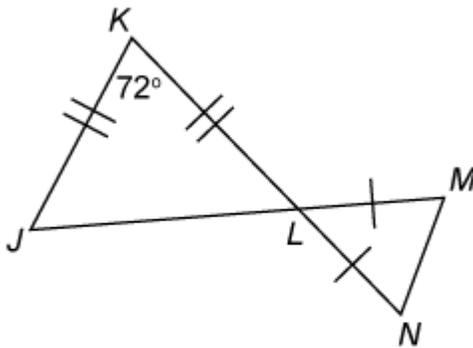
What rigid motion maps the solid-line figure onto the dotted-line figure?



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

8

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

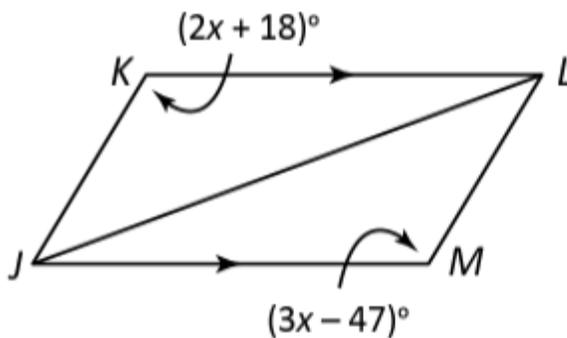


What is $m\angle KJL$?

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

9

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



$x =$

Choose...

66

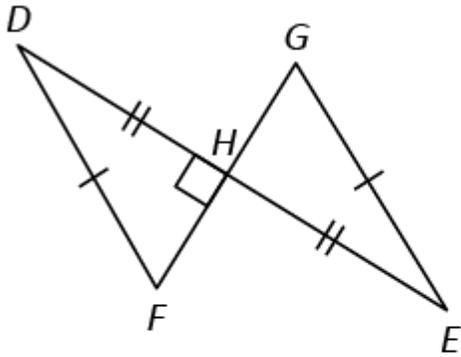
64

65

63

10

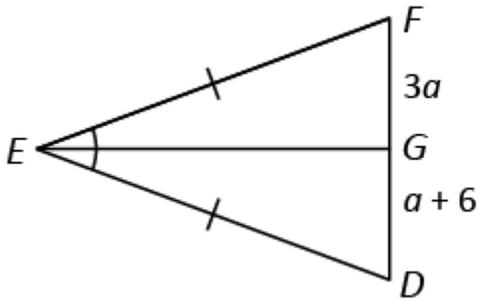
By which theorem can you conclude $\triangle DHF \cong \triangle EHG$?



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

11

What is the length of DF ?



$a =$

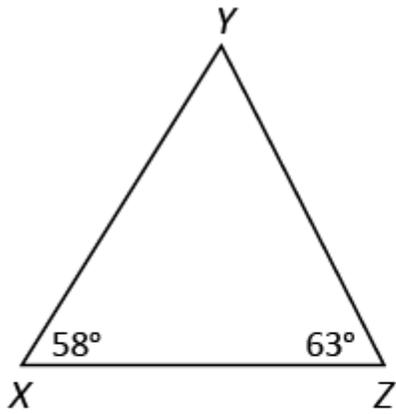
$3a =$

$a + 6 =$

$DF =$

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}

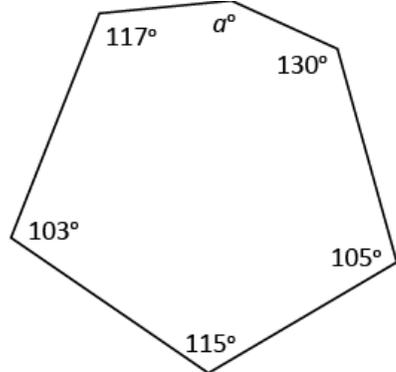
13

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

14

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

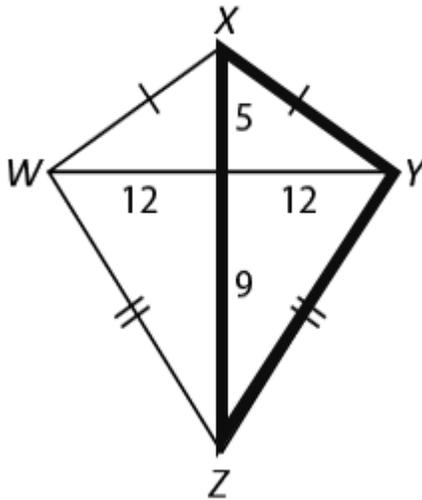
15

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

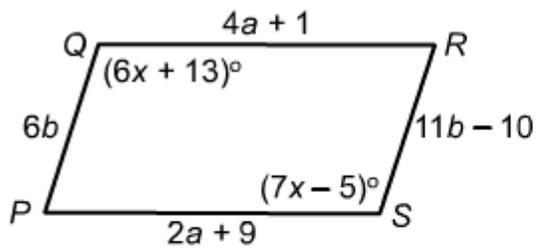
First find XY .

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?

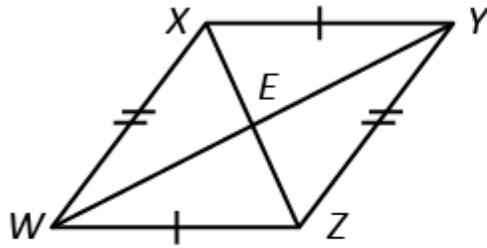
- A. $a = 2, b = 5$
- B. $a = 17, b = 12$
- C. $a = 4, b = 2$
- D. not enough information

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

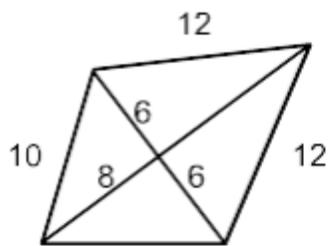
19

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