

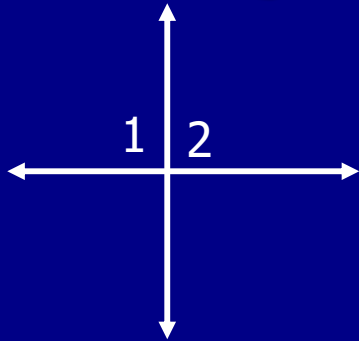
Jeopardy

Vocab	Congruent Triangles	Parallelograms	Parallel lines	Misc.
<u>\$100</u>	<u>\$100</u>	<u>\$100</u>	<u>\$100</u>	<u>\$100</u>
<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	<u>\$200</u>
<u>\$300</u>	<u>\$300</u>	<u>\$300</u>	<u>\$300</u>	<u>\$300</u>
<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	<u>\$400</u>
<u>\$500</u>	<u>\$500</u>	<u>\$500</u>	<u>\$500</u>	<u>\$500</u>

Final Jeopardy

1 - \$100

- Looking at the drawing, which is NOT true?



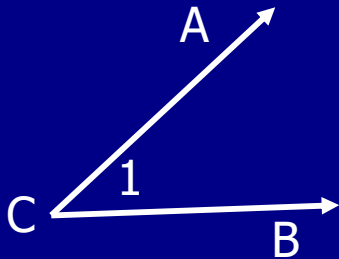
- A.* $\angle 1$ and $\angle 2$ are a linear pair
- B.* $\angle 1$ and $\angle 2$ are supplementary
- C.* $\angle 1$ and $\angle 2$ are perpendicular
- D.* $\angle 1$ and $\angle 2$ are adjacent angles

- C



1 - \$200

- Looking at the drawing, which is NOT a way to name the angle?



A. $\angle ABC$

B. $\angle 1$

C. $\angle ACB$

D. $\angle BCA$

- A



1 - \$300

- If you reflect the point $(2,5)$ over $y = x$, the result will be:

A. $(5,2)$

B. $(-5,2)$

C. $(-2,5)$

D. $(2,-5)$

- A



1 - \$400

- The intersection of two planes results in a _____
 - A. Point
 - B. Line Segment
 - C. Line
 - D. Ray

- C



1 - \$500

- If point B is the midpoint of \overline{AC} ; $\overline{AB} = -2x + 5$ and $\overline{BC} = x^2 - 4x + 2$ Find x
- -1 *(3 doesn't work because \overline{AB} and \overline{BC} would be a negative lengths)*



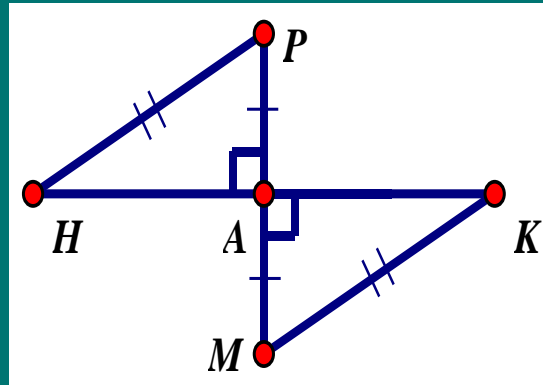
2 - \$100

- Which is NOT a shortcut to proving 2 triangles are congruent?
 - A. ASA
 - B. SSA
 - C. ASA
 - D. SSS
 - E. HL
 - F. AAS
- B



2 - \$200

- What is the shortcut to prove the two triangles congruent?



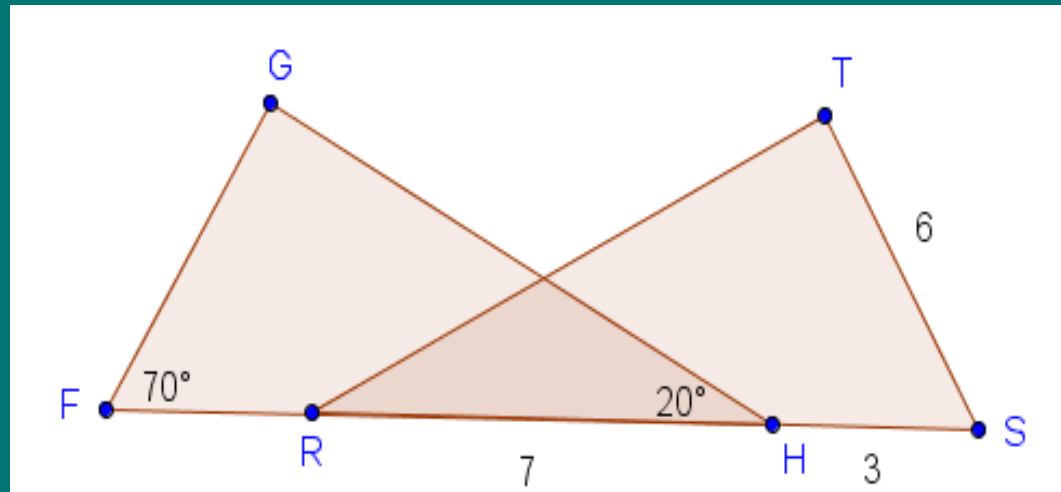
- HL



2 - \$300

Given: $\triangle FGH \cong \triangle STR$ $FH =$ _____

■ 10

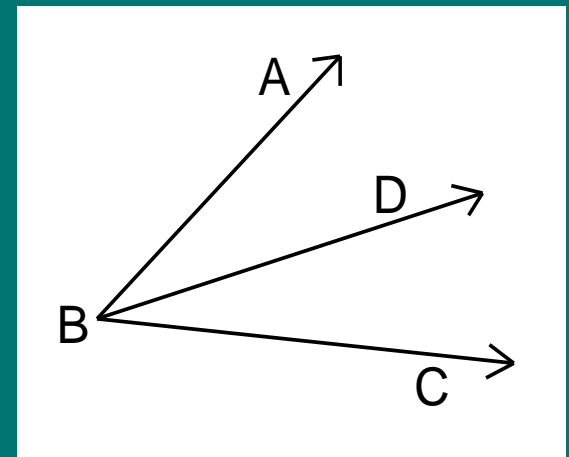


2 - \$400

- Thinking of a proof, Given: \overrightarrow{BD} bisects $\angle ABC$

Statement: _____

Reason: _____

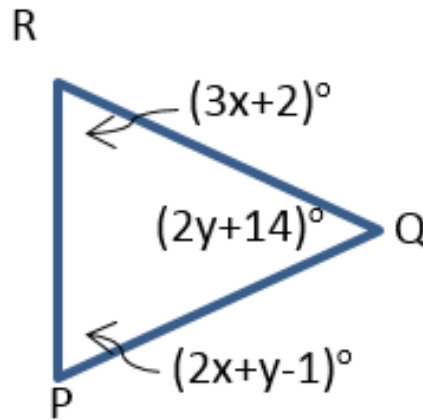
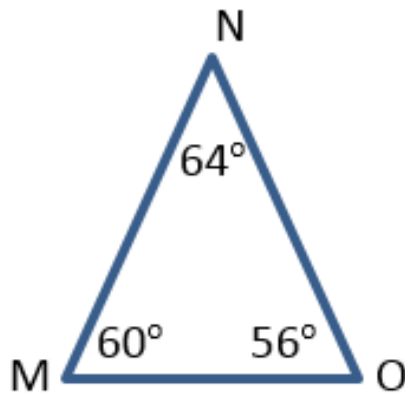


- Statement: $\angle ABD \cong \angle DBC$
- Reason: Definition of angle bisector



2 - \$500

Find the value of x and y given $\triangle MNO \cong \triangle PQR$ the information below.
(2 pts)

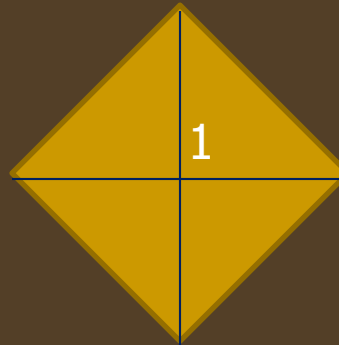


■ $x = 18, y = 25$



3 - \$100

- Find the measure of the numbered angle in the rhombus.



- 90°



3 - \$200

- If one pair of opposite sides of a quadrilateral are _____, then it is a parallelogram.
- Parallel and congruent



3 - \$300

■ Find RU



$$RU = 2x + 10$$

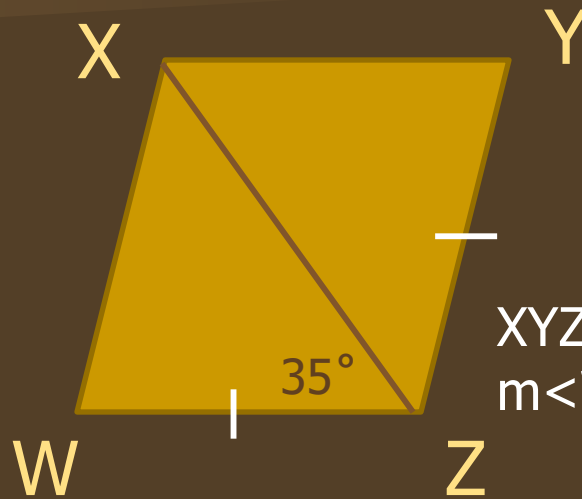
$$ST = 4x - 24$$

■ 44



3 - \$400

- Find $m\angle XYZ$



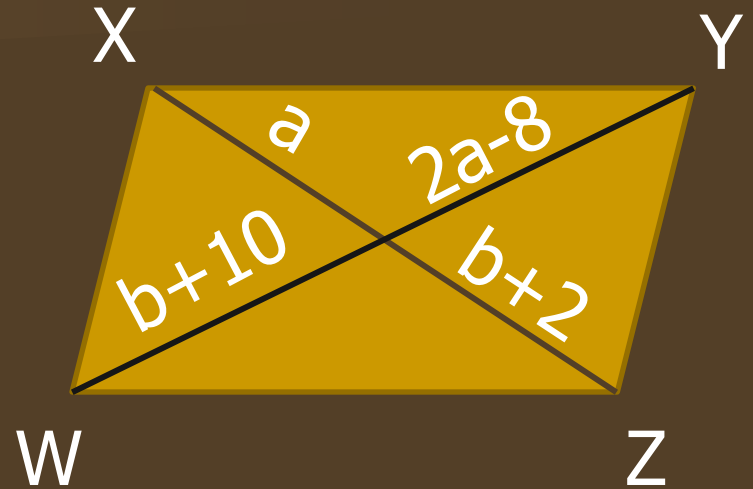
XYZW is a parallelogram
 $m\angle WZX = 35^\circ$

- 110



3 - \$500

- Find the values of a and b .



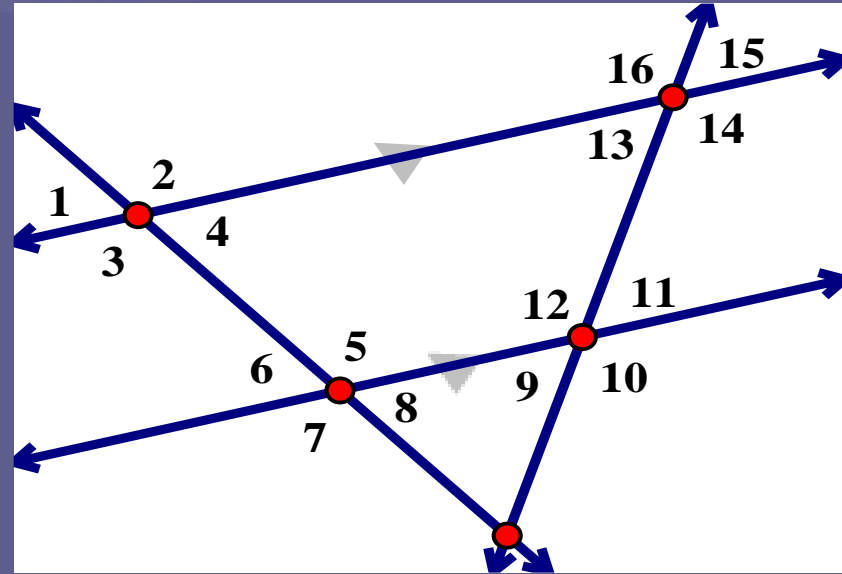
- $a = 16$; $b = 14$



4 - \$100

$\angle 16$ and $\angle 12$ are:

- A. Vertical angles
- B. Same side exterior
- C. Same side interior
- D. Alternate interior
- E. Alternate exterior
- F. Corresponding



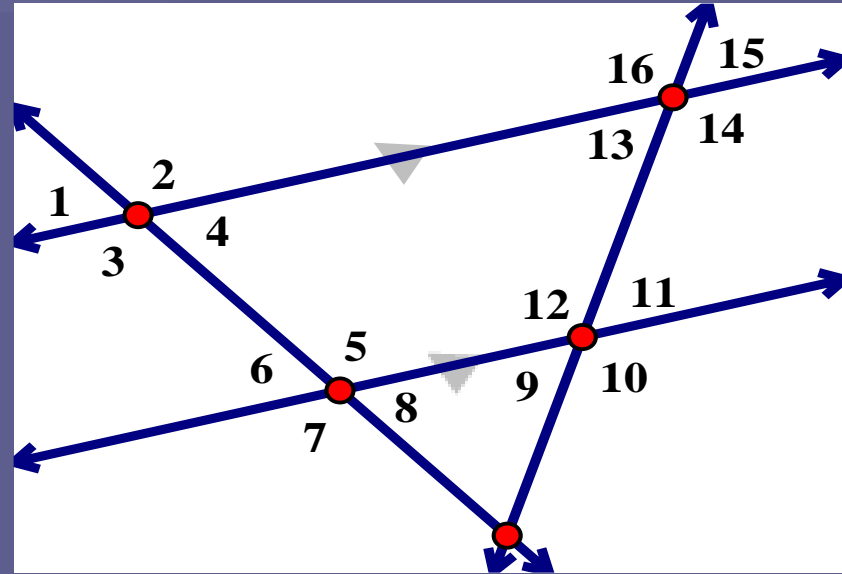
■ F



4 - \$200

$\angle 4$ and $\angle 5$ are:

- A. Congruent
- B. Supplementary
- C. Neither



■ B



4 - \$300

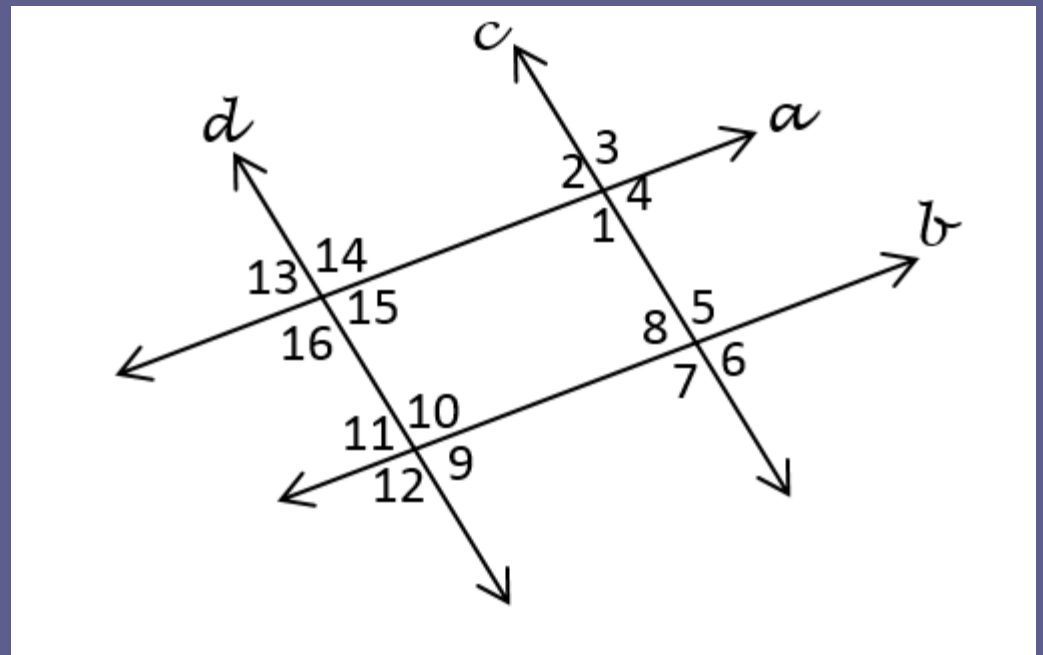
- Find the slope perpendicular to $3x + 8y = 9$

■ $8/3$



4 - \$400

- Which, if any lines are parallel, give a reason given: $\angle 1 \cong \angle 7$

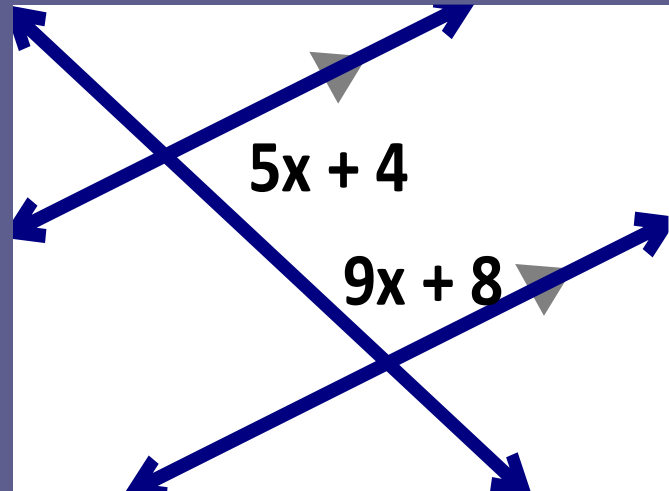


- a and b ; corr \angle 's $\cong \rightarrow \parallel$ lines



5 - \$500

■ Find x



■ $x = 12$



5 - \$100

- Using a compass, when you want to bisect a segment, you need to construct a _____

- Perpendicular bisector



5 - \$200

- Using a compass, when you want to construct a circumscribed circle, you first need to construct the _____
- Perpendicular bisectors of each side



5 - \$300

- Find the distance between (2,5) and (3,8)

- $\sqrt{10}$

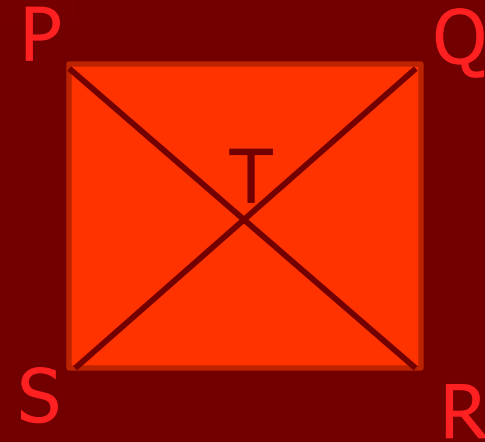


5 - \$400

- PQRS is a square. Find TR.

$$\overline{PT} = 9x + 20$$

$$\overline{TS} = 10x + 8$$

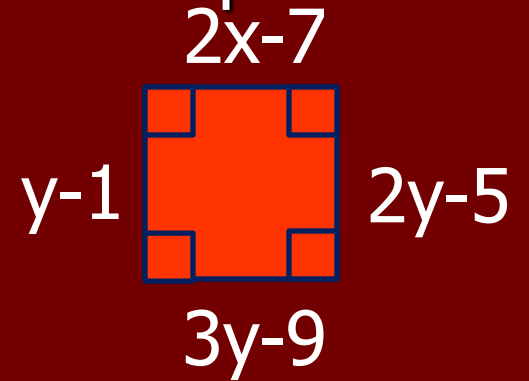


- 128



5 - \$500

- Find the values of the variables of the square.



- $x = 5; y = 4$

