SEGMENT ADDITION POSTULATE AND ANGLE ADDITION POSTULATE

Name:	
Date: _	Class:



- Given that the distance from the ground to the lowest branch is 39 meters and the distance from the ground to the branch with the bird is 46 meters, find the distance between the lowest branch and the branch with the bird.
- Given that the distance from the branch with the bird to the top of the tree is 15 meters, find the height of the tree.
- 3. Given that the measure of angle 1 is 28 degrees and the measure of angle 2 is 55 degrees, find the measure of angle ABC.
- 4. Given that the measure of angle DEF is 62 degrees and angle 6 is congruent to angle 7, find the measure of angle 6.
- 5. Given that the measure of angle 3 is 23 degrees, the measure of angle 5 is 134 degrees, and the measure of the large angle made up of all three angles 3, 4, and 5 is 221 degrees, Find the measure of angle 4.

6. Write an equation that can be used to find the requested measure and identify which postulate you used.

а	M N P	Find m <mop.< th=""><th>Equation: </th><th>Postulate: </th></mop.<>	Equation: 	Postulate:
Ь	W X Y Z	Find XZ.	Equation: 	Postulate:
C	E D B B	Find m <aed.< td=""><td>Equation: </td><td>Postulate: </td></aed.<>	Equation: 	Postulate:
d	S T U V W	Find SW.	Equation: 	Postulate:



SEGMENT ADDITION POSTULATE AND ANGLE ADDITION POSTULATE

Name:	
Date:	Class:

Answer Key



 Given that the distance from the ground to the lowest branch is 39 meters and the distance from the ground to the branch with the bird is 46 meters, find the distance between the lowest branch and the branch with the bird.

7 meters

- Given that the distance from the branch with the bird to the top of the tree is 15 meters, find the height of the tree.
 61 meters
- Given that the measure of angle 1 is 28° and the measure of angle 2 is 55°, find the measure of angle ABC.
 83°
- Given that the measure of angle DEF is 62 degrees and angle 6 is congruent to angle 7, find the measure of angle 6.
 31°
- Given that the measure of angle 3 is 23 degrees, the measure of angle 5 is 134 degrees, and the measure of the large angle made up of all three angles 3, 4, and 5 is 221 degrees, Find the measure of angle 4.
 64°

6. Write an equation that can be used to find the requested measure and identify which postulate you used.

а		Find m <mdp.< th=""><th>Equation: m<mon +="" m<nop="m<MOP</th"><th>Postulate: Angle Addition Postulate</th></mon></th></mdp.<>	Equation: m <mon +="" m<nop="m<MOP</th"><th>Postulate: Angle Addition Postulate</th></mon>	Postulate: Angle Addition Postulate
Ь	W X Y Z	Find XZ.	Equation: XY + YZ = XZ	Postulate: Segment Addition Postulate
C	E D C B B B B B B B B B B B B B B B B B B	Find m <aed.< td=""><td>Equation: m<aeb +="" m<bec="" m<ced="<br">m<aed< td=""><td>Postulate: Angle Addition Postulate</td></aed<></aeb></td></aed.<>	Equation: m <aeb +="" m<bec="" m<ced="<br">m<aed< td=""><td>Postulate: Angle Addition Postulate</td></aed<></aeb>	Postulate: Angle Addition Postulate
d	S T U V W	Find SW.	Equation: ST + TU + UV + VW = SW	Postulate: Segment Addition Postulate





Thank you for purchasing this product!

This resource is intended for use by a single teacher. If you would like to share it, you can download an additional license for 50% off. Visit your "My Purchases" page to do this.

Permission is granted to copy pages for use within your own classroom or for your students. Placing any part of this product online in any form is a violation of the Digital Millennium Copyright Act.

Please rate and review this product by returning to my <u>store</u>. While you are there, check out the other math resources I have created. Thanks!

All images are created by Math Giraffe or are in the public domain.

© Copyright 2014 Math Giraffe









