

5 DRAW A 165° ANGLE. Bisect ANGLE THEN DRAW I Bisectors through both SIDES.

0

•	•	•	•	•	•	Fire	st (Ge	om	ieti	ry (Cla	SS	NE	EXT N	r M	/ee	ek!	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	0	•	•	1) 1	Fo S	orn he	nul et!	a a W	anc Ior	l D th	efi 10	niti Te:	on st l	Sł Poi	nee	et n s!	านร	st c	ov	er	ea	ch	ch	apt	ter	(la	be	l ea	ach	n cl	hap	ote	r. o	n	•	•
•	•	•	•	•	•	2)	Ta	ake	e th	ne l	Un	it.l	tes	st ii	n.T	est	tB	ool	kle	t!	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	3)	C	orr	rec	t∵To	est	ar	nd I	ma	ke	SU	Ire	yo	u c	an	do	o al	1.0	f∶tł	ne i	oro	ble	em	s!	•	•	•	•	•	•	•	•	•
		•			٠	•								•		•	•				•		•				•		•	•	•	•		•	•	•	•	
	•																					•		•			•		•	•	•	•						•
																																			•	•	•	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
																																			•	•		
		•	•	•	•	•	•	•			•			•		•	•	•			•		•				•		•	•	•	•		•	•	•	•	•
		•				•		•				•		•		•	•	•			•		•				•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•		•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
																					•		•				•	•	•	•	•	•	•	•	•	•	•	
	•	•				•			•	•		•	•	•	•	•	•				•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
																																						•
			•	•				•			•				•			•					•											•	•	•	•	
•	•	•	•	•	•		•	•	•	•	•	•	•		•	•		•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•
																																			•	•		
•	•	•		•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
															•						•																	•
						•			•					•	•		•	•			•		•			•	•	•	•	•	•	•	•	•	•	•	•	
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

GEOMETRY Ch. 10 Construct a triangle with 3 different length sides MEASURE EACH SIDE, MEASURE EACH ANGLE SIDE A Za Zb SIDE B SIDE C 1/C SUM OF INTERIOR ANGLES SIDE a SIDE C



LESSON PRACTICE

Describe each triangle according to the sides.



Describe each triangle according to the angles.



7. Can there be an isosceles right triangle?

8. Explain the reason for your answer to #7.

9. Can you have a triangle with sides 5, 7, and 15?

10. Can you have a triangle with sides 8, 9, and 11?

LESSON PRACTICE 10A

Fill in the blanks.	und a(n)
	tides congruent is called attr
11 A triangle with only t	wo sides congres
triangle	
triangle.	und a(n)
	dos congruent is called any
12. A triangle with all si	
triangle.	
(nung)	in fitte
is equi	angular, all of its
13. If a triangle is equa	sure.
have the same mee	
	tite angles greater than 0 ⁻
14 A triangle with all	of its angles s (nangles
and less than 90°	is a(n)
	than 90° is a(n)
and with on	e angle greater than 50
15. A triangle with on	
triangle.	and the state of t
	ides congruent is called a(n)
16 A triangle with no	sides congrad
triangle.	
(nung)	$t_{\rm rescale}$ the triangle is $a(n)$
is angle in a	triangle is equal to 90°, the same
17. If one angle in a	triangle.
	ing triangles and label the size of each angle.
Construct each of the fol	lowing triangles
Use another paper if nec	essary.
	10 acute triangle.
to sight triangle.	19. acute the set of t
18. fight thangles	



Plot the points, draw a line to connect them, and find the slope–intercept formula for the line.



Plot the points and draw the line. Find the slope–intercept form and the standard form of the equation of the line.











5. (-3, 6), (0, 0)

Y = _____





→ X

Follow the directions for each graph.

- 7. Plot the points (2, 0) and (4, -3).
- 8. Make a right triangle and determine the slope.
- 9. Estimate the intercept by extending the line until it intercepts the Y-axis.
- 10. Describe the new line using the slope-intercept formula.



- 11. Which of the following lines are parallel to the line you drew? Put each equation into the slope-intercept form before answering.
 - A. 2Y = 3X + 10
 - B. 2Y 3X = -4
 - C. 2Y + 3X = 0
- 12. Draw a line that is parallel to the line described in #10, and that passes through the point (2, -5).
- 13. Describe the new line using the slope-intercept form of the equation of a line.
- 14. Describe the new line with the standard form of the equation of a line.

- 15. Plot the points (1, 3) and (-1, -5).
- 16. Make a right triangle and determine the slope.
- 17. Estimate the intercept by extending the line until it intercepts the Y-axis.
- 18. Describe the new line using the slope-intercept formula.



- 19. Which of the following lines is parallel to Y = 3/2 X 2?
 - A. 2Y = -5X 4
 - B. 3Y = 6X
 - C. 4Y = 6X + 4
- 20. Draw a line that is parallel to the line described in #18 that passes through the point (0, 3).
- 21. Describe the new line using the slope-intercept form of the equation of a line.
- 22. Describe the new line with the standard form of the equation of a line.

SYSTEMATIC REVIEW



- 1. Plot the points (2, 6) and (-1, 3).
- 2. Make a right triangle and determine the slope.
- Estimate the intercept by extending the line until it intercepts the Y-axis.
- 4. Describe the line using the slope-intercept form, and then give the standard form of the equation of a line.



- 5. Which of the following lines is parallel to Y = -X + 2?
 - A. 2Y = -2X 2B. 3Y = 4X + 1
 - C. 5Y = -5X
- 6. Draw a line that is parallel to the line described in #4 while passing through the point (2, 2).
- 7. What will be the slope of a line parallel to Y = 2X 4?
- 8. What will be the slope of a line parallel to 4Y = -12X 4?
- 9. Rewrite as the standard form of the equation of a line: Y 3 = 1/3 X 1.
- 10. Rewrite using the slope-intercept form: 2Y + 3X = 1.

Simplify and solve for the unknown.

11.
$$(3 - 11)^2 \times 2 \div 16 - 7 = 3Y - 4Y + 9$$

12. $(3 - 5)^2 + |6 - 4| - X = 3X$

13.
$$3(A - 4) - 5(2A - 6) = 21$$

14. $1\frac{1}{3} + \frac{4}{5}A = 2\frac{1}{5}$

Simplify.

15. $-6^2 - (-6)^2 =$ 16. 5 + 5 - (-7) =

$$17. -[-(-7)] = 18. (-8)^2 =$$

QUICK REVIEW

To find the percent of a number, change the percent to a decimal and multiply.

EXAMPLE Shipping is 8%. What will it cost to ship a package worth \$25.50?

8% is the same as .08.

25.50 x .08 = \$2.04 cost of shipping

- 19. Mr. Brown gets a profit of 25% of the total (retail) cost of each item he sells. What is his profit on an item that sells for \$76.98? Round your answer to the nearest hundredth.
- 20. Forty-five percent of the people had brown eyes. If there were 600 people, how many had brown eyes?

SYSTEMATIC REVIEW

9D

- 1. Plot the points (5, 1) and (-1, -5).
- 2. Make a right triangle and determine the slope.
- 3. Estimate the intercept by extending the line until it intercepts the Y-axis.
- 4. Describe the line using the slope-intercept form, and then give the standard form of the equation of a line.
- 5. Which of the following lines is parallel to Y = 1/4 X 3?
 - A. 2Y = 1/3 X + 2
 - B. 4Y = 4X + 3
 - C. 3Y = 3/4 X + 6



- 6. Draw a line that is parallel to Y = 1/4 X 3 while passing through the point (0, -1).
- 7. Describe the new line using the slope-intercept form.
- 8. What will be the slope of a line parallel to 3Y = -6X + 9?
- 9. Rewrite in the standard form of the equation of a line: Y = 2X + 5.
- 10. Rewrite using the slope-intercept form: 4Y + 2X = 8.

Simplify and solve for the unknown.

11.
$$|-1 - 1 - 1 - 1|^2 = (-1)^2 + B(-1) \div 1$$

12.
$$(3 + 5)^2 + |8 - 11| + Z = 4(Z - 2)$$

13. 5(B - 6) + 4(2B + 7) = 102

Simplify.

15. $-\{-[-(-8)]\}$ 16. $-9^2 =$

17.
$$-(-4) =$$

18. $3^2 + (-3)^2 =$

- 19. A Canadian came to America and exchanged his money for U.S. dollars at an exchange rate of 76%. If he exchanged \$200, how much did he receive in U.S. funds? (Find 76% of 200.)
- 20. WF x 8 = 2 (Check your answer by multiplying.)