

I'm not robot!

CH. 6 MID-CHAPTER QUIZ

1. HEXAGON → 6 SIDES

$$(N-2)180 = (6-2)180 = 4(180) = 720$$

2. EACH ANGLE = $147\frac{3}{11}$

$$147\frac{3}{11}(N) = (N-2)180$$

$$147\frac{3}{11}(N) = 180N - 360$$

$$147.27N = 180N - 360$$

$$-32.72N = -360$$

$$N = 11$$

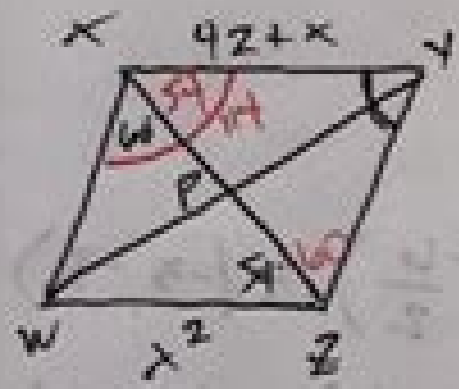
3. 360°

4. PENTAGON = 5 SIDES

$$\frac{360}{5} = 72^\circ$$

5. $40N = 360$

$$N = 9$$



6. $WZ \rightarrow x^2 = 42 + x$

$$x^2 - x - 42 = 0$$

$$(x+6)(x-7) = 0$$

$$x = -6, 7$$

$$WZ = 36, 49$$

7. $\angle XYZ \cong \angle XWZ$

OR SUP TO $\angle YXW$

$$180 - 114 = 66$$

$$\angle XYZ = 66$$

$$5x - 25 = 3x + 5$$

$$2x = 30$$

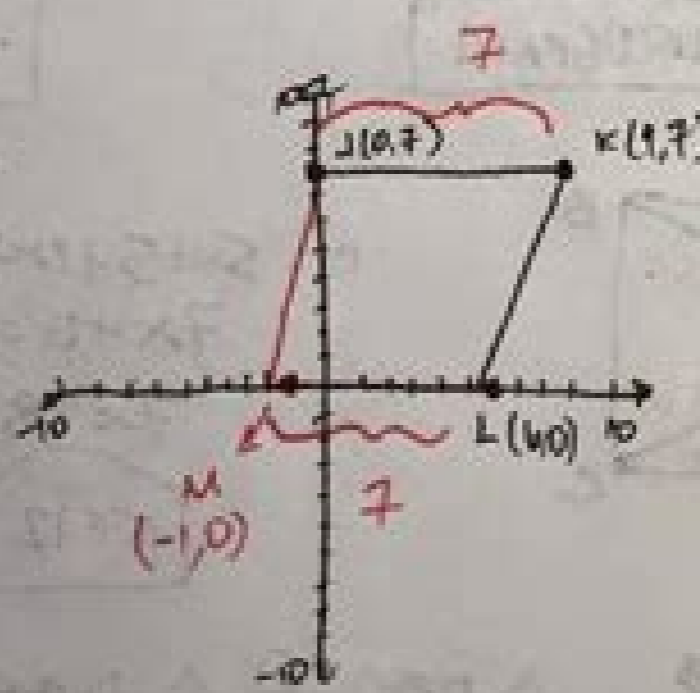
$$x = 15$$

$$5(15) - 25 = 3(15) + 5$$

$$= 50 = 50$$

A

9.



OPPOSITE SIDES

PARALLEL AND

\cong

$$\therefore M(-1,0)$$

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Geometry
HW 2-19 to 2-23

2-19) a) vertical angles, equal

$$3x + 5 = 5x + 57$$

$$-2x = 52$$

$$x = -26$$

b) straight angle pair

supplementary

$$2x + 4x + 150 = 180$$

$$6x = 30$$

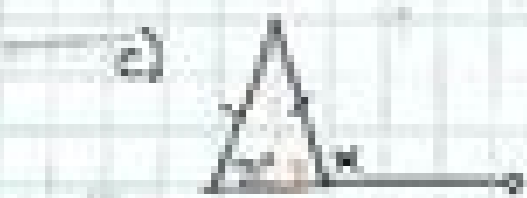
$$x = 5$$

2-20) $m\angle B = m\angle C$ because the line of symmetry must pass through A and these angles are opposite of the line of symmetry.

$$b) m\angle B + m\angle C = 124^\circ$$

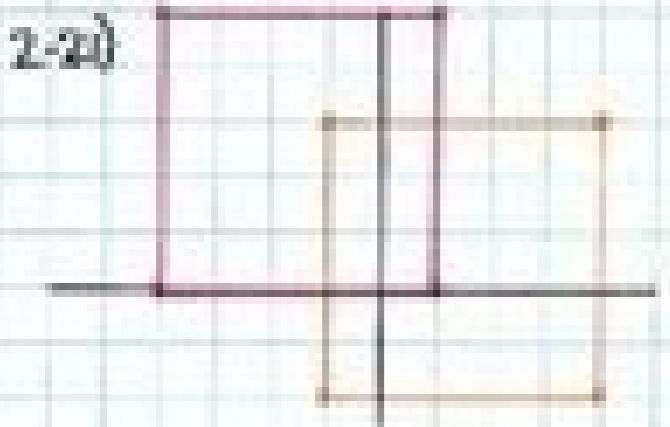
$$m\angle B = 62^\circ$$

$$124 \div 2 = 62$$



$$77 + x = 180$$

$$x = 103$$



a) square

$$b) (-1, 3), (1, 3), (-4, 0), (1, 0)$$

2-22) $(-1, -2)$ and $(4, 3)$ $m = \frac{3 - (-2)}{4 - (-1)} = \frac{5}{5} = 1$ $2x - 11y = 0$

$$y = x - 1$$

$(3, 2)$ is NOT on the line $1(3) - 1 = 2$

2-23) a)

b)

They form a Z shape

vertical angles equal measure

HW3) 1 point 2 points 3 points


HW4) a) Reflection d) rotation b) translation e) reflection c) rotation f) reflection and rotation

HW5) $(7x-4) + (10x+3) + 19 = 62$
 $17x - 1 = 43$
 $17x = 44$
 $x = 2$
 a) $7(2) - 4 = 10$
 b) $10(2) + 3 = 23$

HW6) a) 14 sq units b) 15 sq units

HW7) a) $y = -3x - 9$ b) $y = 2x^2 - 3x - 2$ c) $2x - 5y = 4$
 $x = -4$ $y = 29$ $y = -2$

Use the Right Triangle Theorem Exercise 5-1.

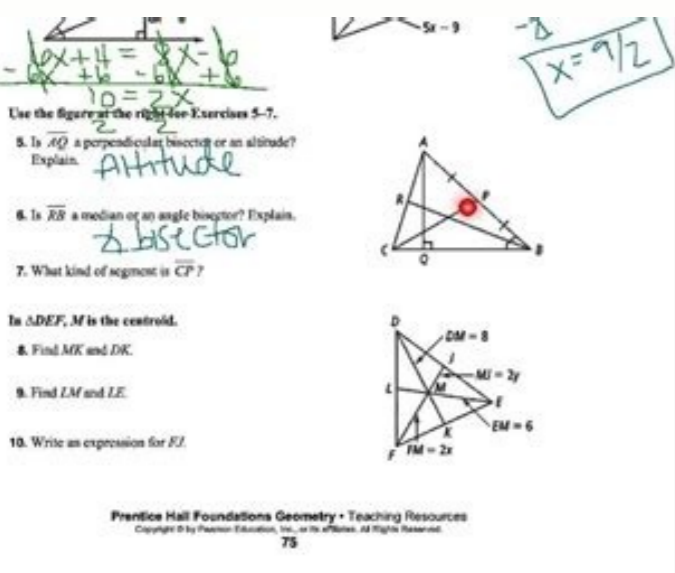
1. In $\triangle ABC$, $\angle C$ is a right angle. Find the missing side length.
 a) $AC = 10$, $BC = 24$, find AB .
 b) $AB = 25$, $BC = 24$, find AC .

2. In $\triangle ABC$, $\angle C$ is a right angle. Find the missing angle measure.
 a) $\angle A = 30^\circ$, find $\angle B$.
 b) $\angle B = 45^\circ$, find $\angle A$.

3. What kind of segment is DE ?
 a) $DE \parallel BC$
 b) $DE \perp BC$
 c) DE is a median
 d) DE is an altitude

4. Find ME and DE .
 5. Find EM and DE .

6. Write an expression for DE .



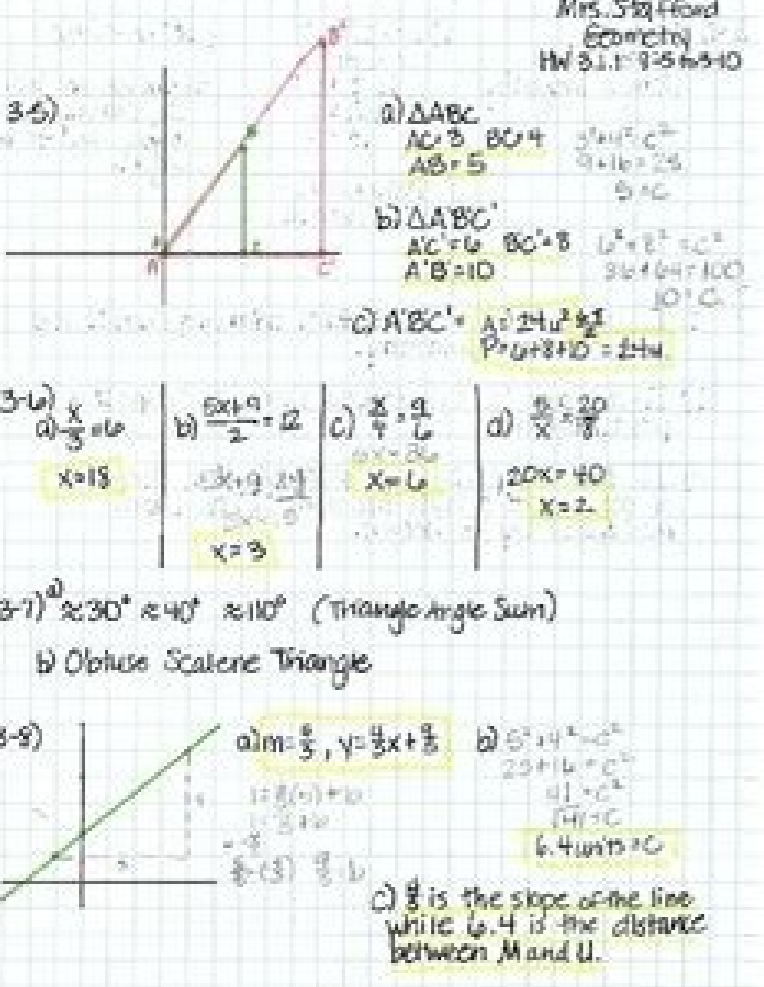
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Geometry
HW 5.1: 9-5 to 9-10

3-5) $\triangle ABC$ and $\triangle A'B'C'$
 a) $AC=3$, $BC=4$, $AB=5$
 b) $AC=6$, $BC=8$, $AB=10$
 c) $AC=9$, $BC=12$, $AB=15$

3-6) a) $x = 18$ b) $x = 3$ c) $x = 6$ d) $x = 2$

3-7) $\angle A = 30^\circ$, $\angle B = 40^\circ$, $\angle C = 110^\circ$ (Triangle Angle Sum)
 b) Obtuse Scalene Triangle

3-8) $am = \frac{3}{4}$, $y = \frac{3}{4}x + \frac{3}{2}$
 c) $\frac{3}{4}$ is the slope of the line while 6.4 is the distance between M and U.



1 Chapter 5 Geometry Homework Answers 2 Sec 5.1 900°, 1080°, 1260°, 1440°, 1620°, 3240°, 9540°, 17640° 108°, 120°, 128 2/3°, 135°, 144°, 150°, 157 1/2°, 176 2/3°, 122°, 136°, e = 108°, f = 36°, c = 108°, d = 106°, g = 105°, h = 82°, j = 120°, k = 38° The sum of the interior angle measures is 358°. The measures of interior angles add up to 544°. 18 = 116°, b = 64°, c = 90°, d = 82°, e = 90°, f = 88°, g = 150°, h = 56°, j = 106°, k = 74°, m = 136°, n = 118°, p = 99° 17 15 The twelfth century. 3 Sec 5.2 1) Supplementary angles; 2) Supplementary angles; 3) Supplementary angles; 4) 540°; 5) 180°. Triangle Sum Conjecture; 6) 360° 15 sides 43 sides Yes. The maximum is three. The minimum is 0. A polygon might have no acute interior angles. 360° Regular polygons: equilateral triangle and regular dodecagon. Angle measures: 60°, 150°, and 150°. 72°; 60° a = 108° b = 45 1/2° Regular polygons: square, regular hexagon, and regular dodecagon. Angle measures: 90°, 120°, and 150°. c = 51 2/3°, d = 115 2/3°, e = 72°, f = 45°, g = 117°, h = 126° 16. Yes. $\triangle ADAT \cong \triangle ARAT$ by SSS. $\angle D \cong \angle R$ by CPCTC. a = 30°, b = 30°, c = 106°, d = 136° a = 162°, b = 83°, c = 102°, d = 39°, e = 129°, f = 51°, g = 55°, h = 97°, k = 83° 4 Sec 5.3 64 cm 17. a = 80°, b = 20°, c = 160°, d = 20°, e = 80°, f = 80°, g = 110°, h = 70°, m = 110°, n = 100° 21°, 146° 52', 128° 15 cm 72°, 61° 99', 38 cm 14. 3) $BN \cong BN$; 4) $\triangle BYN \cong \triangle BYN$ by SSS; 5) $\angle 2 \cong \angle 4$, CPCTC; 6) BN bisects $\angle B$, BN bisects $\angle N$ 5 Sec 5.4 three; one If a quadrilateral is a kite, then exactly one diagonal bisects a pair of opposite angles. Both the original and converse statements are true. 28 60°, 140° 65° a = 54°, b = 72°, c = 108°, d = 72°, e = 162°, f = 18°, g = 81°, h = 49.5°, i = 130.5°, k = 49.5°, m = 162°, n = 99° 23 129°, 73°, 42 cm 35 (3,8) See diagram. Ladié drives a stake into the ground to create a triangle for which the trees are the other two vertices. She finds the midpoint from the stake to each tree. The distance between these midpoints is half the distance between the trees. (0,-8) 6 Sec 5.5 34 cm; 27 cm 132°; 48° 16 in; 14 in 63 m 80 63°; 78° (b - a, c) 1) Given; 2) Definition of parallelogram; 4) $\angle EAL \cong \angle NLA$; 5) $AE \cong LN$; 6) $\triangle AET \cong \triangle LNT$; 7) $AT \cong LT$; 8) EN and LA bisect each other 15. a = 135°, b = 90° a = 120°, b = 108°, c = 90°, d = 42°, e = 69° 18. a = 84°, b = 96° 7 Using Your Algebra Skills 5: Solving Systems of Linear Equations (-1/2, 3) (7, -2) (2/3, 3) (-3, -3) See graph. All the variables cancel out and you're left with a true statement. The lines are the same and there are infinitely many solutions. See graph (p. 772). All the variables cancel out and you're left with a false statement. The lines are parallel (the slopes are the same, but the y-intercepts are different). There is no solution. 8 Sec 5.6 See diagram. False $\triangle IAM$ is not a rhombus because it is not equilateral and opposite sides are not parallel. True $\triangle BOXY$ is a rectangle because its sides are perpendicular. Yes. $\triangle ILE$ is a rhombus, and a rhombus is a parallelogram. If the diagonals are congruent and bisect each other, then the room is rectangular (Rectangle Diagonals Conjecture). False. Consecutive angles are supplementary. 25. a = 54°, b = 36°, c = 72°, d = 108°, e = 36°, f = 144°, g = 18°, h = 48°, j = 48°, k = 84° 20 29. Counterexample: The base angles of an isosceles right triangle measure 45°; thus they are complementary. 37° 45° 90° 9 Sec 5.7 See diagram. Work backward; 95/5; 14 x 2; 30/5; 6 + 2; 8 - 5; 3 - 2; 1 5-8. Work together in class!! 3) SK. Definition of a parallelogram; 5) AIA; 6) Same segment; 7) $\triangle AAKS \cong \triangle ASA$ 4) Given; 5) Conjecture from Exercise 2; 6) $\angle ATH$, CPCTC 1) $WA \cong RT$, Given; 2) $WR \cong AT$, Given; 3) $WT \cong WT$, Same segment; 4) $\triangle WRT \cong \triangle TAW$, SSS; 5) $\angle 2$, CPCTC; 6) RT is parallel WA by Converse of the Parallel Lines Conjecture; 7) $\angle 3$, CPCTC; 8) $RW \cong TA$, Converse of the Parallel Lines Conjecture; 9) Definition of a Parallelogram 10 Ch 5 Review 360° divided by the number of sides a = 116°, c = 64° Sample Answers: Using interior angle, set interior angle measure formula equal to the angle and solve for n. Using exterior angle, divide into 360°. Or find interior angle measure and go from there. $100x = 38$ cm $y = 34$ cm, $z = 51$ cm See table (next slide). a = 72°, b = 108° Trace both sides of the ruler as shown below. a = 120°, b = 60°, c = 60°, d = 120°, e = 60°, f = 30°, g = 108°, m = 24°, p = 84° Make a rhombus using the double-edged straightedge, and draw a diagonal connecting the angle vertex to the opposite vertex. 15 stones Sample answer: Measure the diagonals with string to see if they are congruent and bisect each other. 20 sides 12 cm 1) Given; 2) DI, Definition of a midpoint; 3) NI, Definition of a midpoint; 4) DN, Same segment; 5) $\triangle DEN \cong \triangle DIN$, SSS; 6) $\angle 2$, CPCTC; 7) Definition of an angle bisector Draw a triangle so that the two points are midpoints of the sides. Then measure the side parallel to the midsegment. x = 10°, y = 40° x = 60 cm 11 Ch 5 Review #13 Home > CCG > Chapter 5 > Lesson 5.2.1 © 2022 CPM Educational Program. All rights reserved. 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