

ARE YOU READY? PAGE 297

1. E
2. C
3. A
4. D
5. B
6. acute
7. right
8. acute
9. obtuse
10. $6^2 = 64$
11. $(-12)^2 = 144$
12. $\sqrt{49} = 7$
13. $-\sqrt{36} = -6$
14. $\sqrt{9 + 16} = \sqrt{25} = 5$
15. $\sqrt{100 - 36} = \sqrt{64} = 8$
16. $\sqrt{\frac{81}{25}} = \frac{\sqrt{81}}{\sqrt{25}} = \frac{9}{5}$
17. $\sqrt{2^2} = 2$

18. $d + 5 < 1$



19. $-4 \leq w - 7$



20. $-3s \geq 6$



21. $-2 > \frac{m}{10}$
 $-20 > m$



22. Let p and q represent the following:
 p : Lines ℓ and m intersect.
 q : Lines ℓ and m are not parallel.
 Given: $p \rightarrow q$, and p . So by the Law of Detachment,
 q is true: Lines ℓ and m are not parallel.

23. Let p , q , and r represent the following:
 p : M is the midpoint of $\overline{AB}$
 q : $AM = MB$
 r : $AM = \frac{1}{2}AB$ and $MB = \frac{1}{2}AB$
 Given: $p \rightarrow q$ and $q \rightarrow r$. So by the Law of Syllogism,
 $p \rightarrow r$: If M is the midpoint of $\overline{AB}$, then $AM = \frac{1}{2}AB$ and
 $MB = \frac{1}{2}AB$.

5-1 PERPENDICULAR AND ANGLE
BISECTORS, PAGES 300-306

CHECK IT OUT! PAGES 301-303

- 1a. $DG = EG$
 $DG = 14.6$

- b. Since $DG = GE$ and $\ell \perp \overline{DE}$, ℓ is the $\perp$ bisector of $\overline{DE}$ by the Conv. of the $\perp$ Bisector Thm.

$$EF = \frac{1}{2}DE$$

$$EF = \frac{1}{2}(20.8) = 10.4$$

- 2a. $WX = WZ$
 $WX = 3.05$

- b. Since $XW = ZW$, $\overline{XW} \perp \overline{XY}$, and $\overline{ZW} \perp \overline{ZY}$, $\overline{YW}$ bisects $\angle XYZ$ by the Conv. of the $\angle$ Bisector Thm.
 $m\angle XYZ = 2m\angle WYZ$
 $m\angle XYZ = 2(63^\circ) = 126^\circ$

3. By the Conv. of the $\angle$ Bisector Thm., $\overline{OS}$ bisects $\angle PQR$.

4.

Step 1 Graph $\overline{PQ}$.The $\perp$ bisector of $\overline{PQ}$ is $\perp$ to $\overline{PQ}$ at its midpoint.Step 2 Find the midpoint of $\overline{PQ}$.

$$\text{midpoint of } \overline{PQ} = \left(\frac{-2+2}{2}, \frac{4+(-4)}{2} \right) = (0, 0)$$

Step 3 Find the slope of the perpendicular bisector.

$$\text{slope of } \overline{PQ} = \frac{-4-4}{2-(-2)} = \frac{-8}{4} = -2$$

Since the slopes of $\perp$ lines are opposite reciprocals,
 the slope of the $\perp$ bisector is $\frac{1}{2}$.

Step 4 Use point-slope form to write an equation.

The $\perp$ bisector of $\overline{PQ}$ has slope $\frac{1}{2}$ and passes through $(0, 0)$.

$$y - y_1 = m(x - x_1)$$

$$y - 0 = \frac{1}{2}(x - 0)$$

$$y = \frac{1}{2}x$$

THINK AND DISCUSS, PAGE 303

1. Yes; no, since $PY = QY = 3$, Y is the midpoint of $\overline{PQ}$, and thus by the def. of bisector, ℓ is a bisector of $\overline{PQ}$. If ℓ is the $\perp$ bisector of $\overline{PQ}$, then PX would equal QX by the $\perp$ Bisector Thm. However, $PX = 8.5$ and $QX = 8.4$, so ℓ is not the $\perp$ bisector of $\overline{PQ}$.
2. No, although $MJ = ML$, to apply the Conv. of the $\angle$ Bisector Thm., you must know that $\overline{MJ} \perp \overline{RJ}$ and $\overline{ML} \perp \overline{KL}$.

Holt Geometry Lesson 7 2 Practice Answers

Xiaolong Qi

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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web 1g 1000mg 1mg 1000mcg therefore to convert grams to milligrams you multiply by 1000 milligrams to micrograms multiply by 1000 conversely to change from micrograms to milligrams divide by 1000 and milligrams to grams divide by 1000 thus to multiply by 1000 the decimal point must be moved 3 places to the right example

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