

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 $\overline{PQ}$.

$$\text{midpoint of } \overline{PQ} = \left(\frac{-2+3}{2}, \frac{4+(-1)}{2} \right) = (3, -1)$$

Step 3 Find the slope of the perpendicular bisector.

$$\text{slope of } \overline{PQ} = \frac{-4-2}{1-5} = \frac{-6}{-4} = \frac{3}{2}$$

Since the slopes of $\perp$ lines are opposite reciprocals,
 the slope of the $\perp$ bisector is $-\frac{2}{3}$.

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

The $\perp$ bisector of $\overline{PQ}$ has slope $-\frac{2}{3}$ and passes through $(3, -1)$.

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

$$y - (-1) = -\frac{2}{3}(x - 3)$$

$$y + 1 = -\frac{2}{3}(x - 3)$$

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 $\overline{ML} \perp \overline{KL}$.

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Victor M. Corman

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

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