

ARE YOU READY? PAGE 297

- E
- C
- A
- D
- B
- acute
- right
- acute
- obtuse
- $6^2 = 64$
- $(-12)^2 = 144$
- $\sqrt{49} = 7$
- $-\sqrt{36} = -6$
- $\sqrt{9 + 16} = \sqrt{25} = 5$
- $\sqrt{100 - 36} = \sqrt{64} = 8$
- $\sqrt{\frac{81}{25}} = \frac{\sqrt{81}}{\sqrt{25}} = \frac{9}{5}$
- $\sqrt{2^2} = 2$

18. $d + 5 < 1$



19. $-4 \leq w - 7$



20. $-3a \geq 6$



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. $DC = EG$
 $DG = 14.6$

- b. Since $DG = GE$ and $f \perp \overline{DE}$, f 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 $\angle POR$.

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} .

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

Step 3 Find the slope of the perpendicular bisector.

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

Since the slopes of \perp lines are opposite reciprocals, the slope of the \perp bisector is $-\frac{4}{5}$.

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

The \perp bisector of \overline{PQ} has slope $-\frac{4}{5}$ and passes through $(3, -1)$.

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

$$y - (-1) = -\frac{4}{5}(x - 3)$$

$$y + 1 = -\frac{4}{5}(x - 3)$$

THINK AND DISCUSS, PAGE 303

- 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} .
- No, although $MJ = ML$, to apply the Conv. of the \angle Bisector Thm., you must know that $\overline{MJ} \perp \overline{KJ}$ and $\overline{ML} \perp \overline{KL}$.

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Cathy Duffy



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