

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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KJ Lindholm-Leary

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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web an aldol reaction was performed by combining acetone and benzaldehyde to make dibenzalacetone the percent yield of dibenzalacetone was found to be 73 which is a good percent yield the melting point of dibenzalacetone was around the range of 104 110 c this helped conclude that dibenzalacetone had a trans trans e e isomer

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web oct 25 2013 experiment performed on may 6 and 8 2003 br the purpose strong of strong this experiment was to synthesize dibenzalacetone via an aldol condensation reaction br between acetone and benzaldehyde this was done by mixing the two reactants with naoh and ethanol br

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web dibenzalacetone a introduction in an aldol condensation two molecules of aldehyde or ketone are joined together along with the loss of water for example in the aldol condensation shown in figure 1 two molecules of ethanal are reacted to produce an a b unsaturated aldehyde and water figure 1 aldol condensation of ethanal to