Properties and Attributes of Triangles

ARE YOU READY? PAGE 297

| 1 | €. |
|---|----|
| 3 | A |

2. C. 44. (0)

- 5. B. 6. acute

T. right.

B. beside

9. obtuse

 $10.8^{\circ} = 64$

 $11. (-12)^2 = 144$ $13. -\sqrt{36} = -6$

- 12. $\sqrt{49} = 7$
- 14. $\sqrt{9} + 16 = \sqrt{25} = 5$ 15. $\sqrt{100 36} = \sqrt{64} = 8$
- 16. $\sqrt{\frac{81}{25}} = \frac{\sqrt{81}}{\sqrt{32}} = \frac{9}{5}$ 17. $\sqrt{2^2} = 2$

18. # + 5 < 1



- $-4 \le w 7$ 3 5 W Mr 25 20
 - -3-2-1 0 1 2 3 4 5
- 20. -3s > 6



21. $-2 > \frac{77}{10}$ -20 > m



22. Let a and a represent the following: p: Lines ℓ and m intersect.

a: Lines ℓ and m are not parallel.

Given: p → q, and p. So by the Law of Detachment. g is true: Lines & and m are not parallel.

23. Let p. q. and r represent the following: p : M is the midpoint of AB

a : AM - Ma

 $r:AM = \frac{1}{2}AB$ 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 ASI, then $AM = \frac{1}{2}AB$ and $AA9 = \frac{1}{2}AB$

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

CHECK IT OUT! PAGES 301-303

In DG = EGDG = 14.6 b. Since DG = GE and \(\psi \) DE. \(\ext{is the } \pm \) bisector of DE by the Conv. of the _ Bisector Thm.

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

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

- 2n, WX WZVVX' = 0.06
- b. Since XW = ZW, XW ± XY, and ZW ± ZY, YW bisects ∠XYZ by the Conv. of the ∠ Bisector Thm. $m\angle XYZ = 2m\angle WYZ$ $m\angle XYZ = 2(63^{\circ}) = 126^{\circ}$
- By the Conv. of the ∠ Bisector Thm., QS bisects.

Step 1 Graph PO

The 1 bisector of PO is 1 to PO at its midpoint

Step 2 Find the midpoint of PQ.

midpoint of $PO = \left(\frac{5+1}{2}, \frac{2+(-4)}{2}\right) = (3, -1)$ Step 3 Find the slope of the perpendicular bisector.

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

Since the slopes of \bot lines are opposite reciprocals.

the slope of the \perp 1bisector is $-\frac{2}{3}$.

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

The _ bisector of PQ has slope - 2 and passes through (3), -1).

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

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

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

THINK AND DISCUSS, PAGE 303

- 1. Yes: no: since PY = QY = 3. Y is the midpoint of PQ, and thus by the def. of bisector, £ is a bisector of PQ. If if is the ⊥ bisector of PQ, then PX would equal QX by the _ Bisector Thm. However, PX = 8.5 and QX = 8.4, so ℓ is not the \perp bisector of PCI
- No: although MU = ML, to apply the Conv. of the ∠ Bisector Thm., you must know that \$\overline{AU} \pm \$\overline{R}\$\overline{AU}\$ arnot Mil. I. R.L.

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