

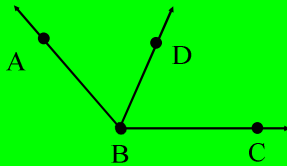
Ch 2.2 Angle Bisectors

Activity:

1. Draw $\angle ABC$ on a piece of paper.
2. Fold the paper so $\overrightarrow{BC}$ is on top of $\overrightarrow{BA}$.
3. Draw point D on the fold of $\angle ABC$
4. Measure $\angle ABC$, $\angle ABD$, and $\angle DBC$.
5. What conclusions can we make from this activity?

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Angle bisector - is a ray that divides an angle into 2 angles that are $\cong$.



Ex 1) $\angle ABC = 110^\circ$, find $\angle ABD$ and $\angle DBC$

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1 1.

p.61 Try 1 - 3

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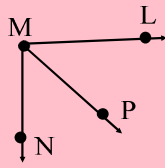
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Ex2) Find the angle and classify it.



MP bisects $\angle LMN$ and $m\angle LMP = 46^\circ$.

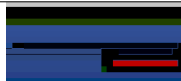
Find $m\angle PMN$ and $m\angle LMN$ and classify.

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1 4. $m\angle SQP$



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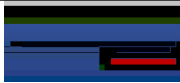
2 4. $m\angle RQP$



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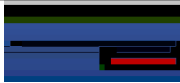
3 4. Classify $\angle RQP$

- A acute
- B obtuse
- C right
- D straight



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4 5. $m\angle SQP$



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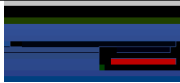
5 $m\angle RQP$



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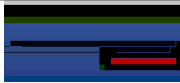
6 classify $\angle PQR$

- A obtuse
- B straight
- C right
- D acute



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7 $6.m\angle PQS$



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8 6. $m\angle PQR$



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9 6. Classify $\angle PQR$

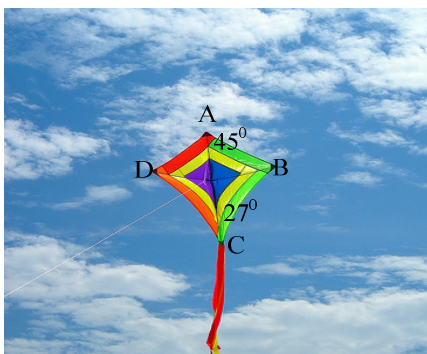
- A acute
- B obtuse
- C straight
- D right



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Ex3) Using angle bisectors

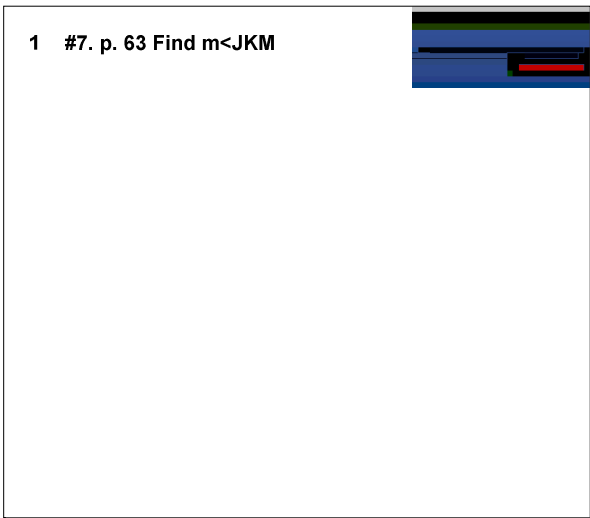
$\angle DAB$ is bisected by $\overrightarrow{AC}$ and $\angle BCD$ is bisected by $\overrightarrow{CA}$. Find the $m\angle DAB$ and $m\angle BCD$.



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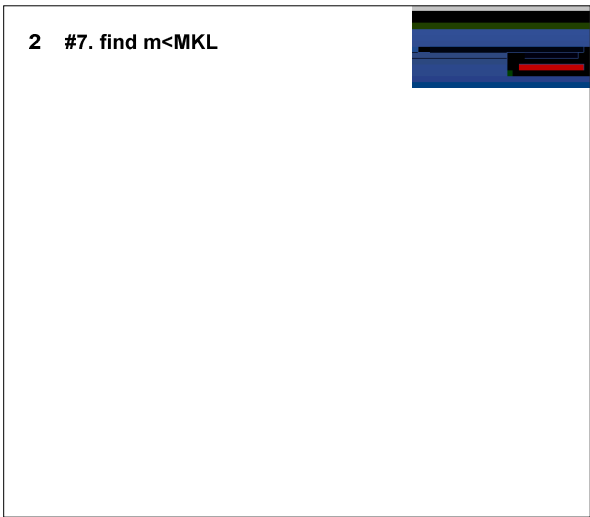


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1 #7. p. 63 Find $m < JKM$

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2 #7. find $m < MKL$

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3 #8. find $m\angle WUV$



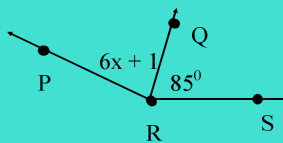
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4 #8. Find $m\angle WUT$



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Ex4) Using Algebra with angle measures.



Find x , if the QR bisects $\angle PRS$.

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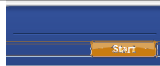
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1 #9. Find x on page 63



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2 #10. Find x .



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