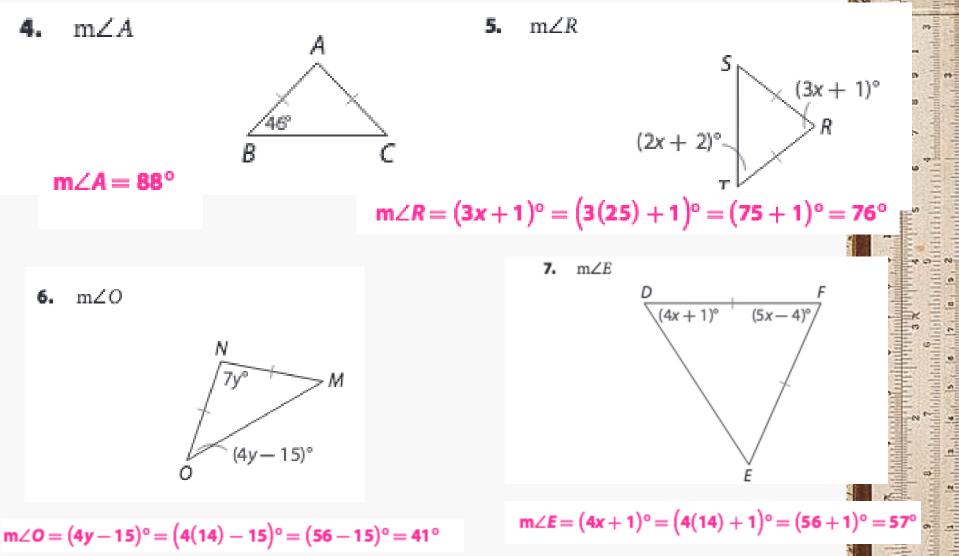
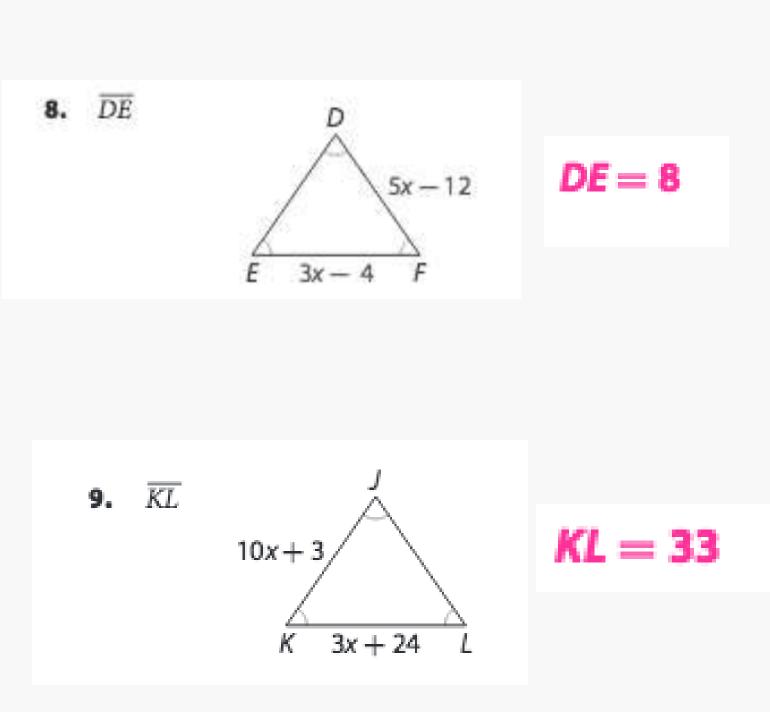
Homework pg. 1104-1108 (4-9, 19, 20)





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Contraction of the local data

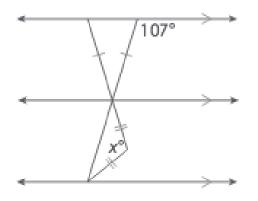
Landon Sanatan Mahambah Landon Bardan Katan Bahar

Calification of the second

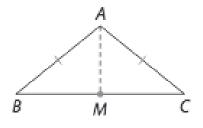
12. Given △JKL with m∠J = 63° and m∠L = 54°, is the triangle an acute, isosceles, obtuse, or right triangle?

By the Triangle Sum Theorem, $m \angle K = 63^{\circ}$, so the triangle is an acute isosceles triangle because all angle measures are less than 90°.

13. Find *x*. Explain your reasoning. The horizontal lines are parallel.



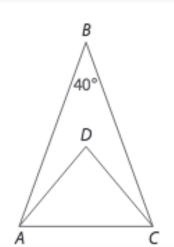
By the def. supp. \angle , the base angles of the top triangle have a measure of 73°. Therefore, the measure of the vertex angle is 34° by the Triangle Sum Theorem. The base angles of the bottom isosceles triangle will also measure 34° by the Vertical Angles Theorem. Thus, x° will equal 112° by the Triangle Sum Theorem. **19.** Critical Thinking Prove $\angle B \cong \angle C$, given point *M* is the midpoint of \overline{BC} .



Statements	Reasons
1. <i>M</i> is the midpoint of <i>BC</i> .	1. Given
2. $\overline{BM} \cong \overline{CM}$	2. Definition of midpoint
3. $\overline{AB} \cong \overline{AC}$	3. Given
4. $\overline{AM} \cong \overline{AM}$	4. Reflexive Property of Congruence
5. △AMB ≅ △AMC	5. SSS Triangle Congruence Theorem
6.∠B≅∠C	6. CPCTC

20. Given that △ABC is an isosceles triangle and AD and CD are angle bisectors, what is m∠ADC?

 $m\angle BAC = m\angle BCA = 70^{\circ}$, so $m\angle DAC = m\angle DCA = 35^{\circ}$. Then, $m\angle ADC = 180^{\circ} - (35^{\circ} + 35^{\circ}) = 110^{\circ}$.



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