Practice Worksheet for Lesson 4-4

Name:
Mailbox #:

Use the given diagram to answer the following questions.

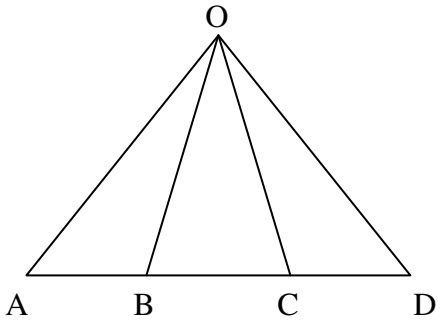
1) If ΔAOD is isosceles, with

$OA = OD$, then $m\angle$ _____ = $m\angle$ _____

2) If ΔBOC is isosceles, with
$m\angle OBC = m\angle OCB$, then

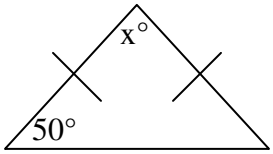
_____ = _____

3) If ΔAOD was a right isosceles triangle with $m\angle AOD = 90°$, then the measure of $\angle A$ would = _____



Find the value of x for the following diagrams.

4)



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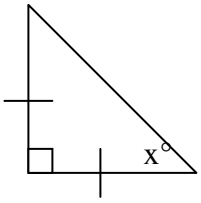

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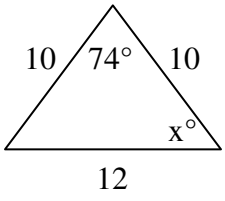
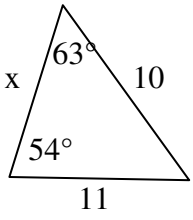
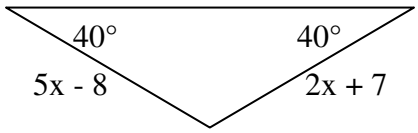


7)



Find the value for x with the given diagrams

8)



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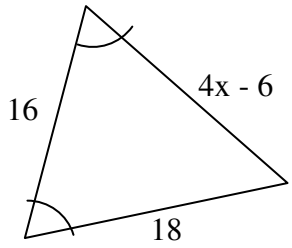

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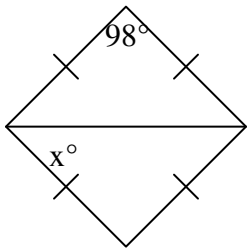
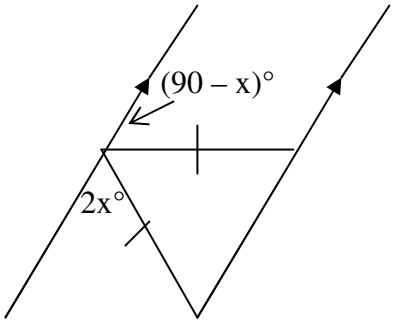


11)



Solve for x and y.

12) In equiangular ΔABC, $AB = 4x - y$, $BC = 2x + 3y$, and $AC = 7$

13) In equilateral ΔDEF, $m\angle D = x + y$ and $m\angle E = 2x - y$

Solve for x.

14) In ΔJKL, $JK \cong KL$, $m\angle J = x^2$, $m\angle K = x + 1$, and $m\angle L = 3x - 2$

15) Given that $PO = QO$, $RO = SO$ and $m\angle 1 = 40°$ solve for the following

$m\angle 2 =$	$m\angle 5 =$
$m\angle 6 =$	$m\angle 7 =$