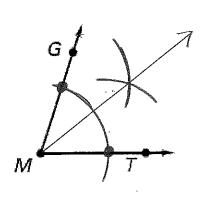
Analytic Geometry – Unit 1 – Bisected Angles

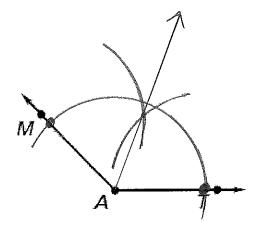
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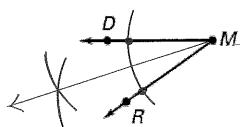
1st Period

An angle bisector is a ray that divides an angle into two adjacent angles that are congruent.

EXAMPLE 1) Bisecting an Angle

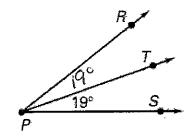






(EXAMPLE 2) Finding Angles Measures

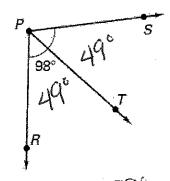
1.



$$m \angle TPS = \frac{19^{\circ}}{19^{\circ}}$$

$$m \angle RPT = \frac{19^{\circ}}{38^{\circ}}$$

2.



$$m \angle SPR = \frac{98^{\circ}}{98^{\circ}}$$

 $m \angle SPR = \frac{98^{\circ}}{49^{\circ}}$

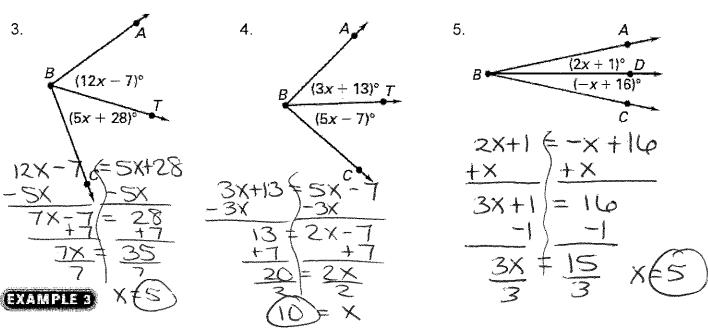
EXAMPLE 3

Finding the Measure of an Angle

In the diagram, \overrightarrow{BC} bisects $\angle ABD$. Solve for x. $4 \times + 31 + \times + 44 + 4 \times + 3 \times + 31 = 44 + 4 \times + 3 \times + 31 = 44 + 4 \times + 3 \times + 31 = 44 + 4 \times + 3 \times + 31 = 44 + 4 \times + 3 \times + 31 = 44 + 4 \times + 3 \times + 31 = 44 + 4 \times + 3 \times + 31 = 44 + 4 \times + 3 \times + 31 = 44 + 4 \times + 3 \times + 4 \times + 4$

Exercises for Example 2

 \overrightarrow{BD} bisects $\angle ABC$. Find the value of x.



7.

TOTD: Solve for x in each of the following:

