BECA / Dr. Huson / Geometry Name:
September 27, 2016

Homework:

1) $\angle ABC$ and $\angle DEF$ are congruent angles. $m\angle ABC = 3x - 20$, and $m\angle DEF = 2x + 10$. Find x and the measure of each angle.

Geometry:

Substitute:

Solve algebra:

$x =$

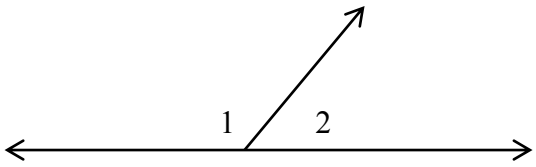
$m\angle ABC =$

$m\angle DEF =$

Check:

2) Given $m\angle 1 = 10x + 40, m\angle 2 = 2x + 20$ as shown in the figure. Solve for x and the measures of the two angles. Show the steps and check your result.

Geometry:



Substitute:

Solve algebra:

$x =$

$m\angle 1 =$

$m\angle 2 =$

Check:

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3) Given $PQ = 12$ and $QR = 3x + 3$. Points *P, Q,* and *R* are collinear and *Q* bisects $\overline{PR}$. Solve, check.

Geometry:

Substitute:

Solve algebra:

$x =$

$PQ =$

$QR =$

Check:

The following pairs do not mean the same thing. Explain what they mean and what the difference is. Use complete sentences.

21) $\overline{AB}$ **,** AB

22) $\angle ABC \cong \angle DEF$ **,** $m\angle ABC = m\angle DEF$