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January 23 2013 H.gwb - 1/5 - Fri Jan 25 2013 10:57:23

Warm↑:

Given: $\overline{GM} \parallel \overline{RA}$
 $\angle MGR \cong \angle RAM$

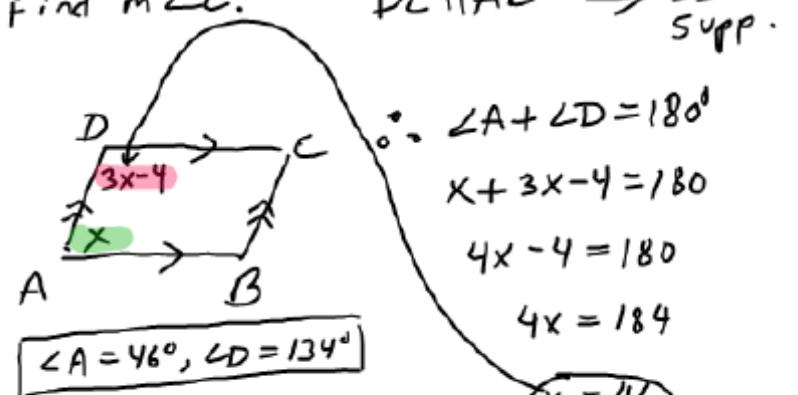
Prove: $\overline{GR} \parallel \overline{MA}$

Statement	Reason
① $\overline{GM} \parallel \overline{RA}$ $\angle MGR \cong \angle RAM$	① Given
• ② $\angle MGA \cong \angle RAG$	② \parallel lines \Rightarrow alt. int. \angle 's \cong
.. ③ $\angle MAG \cong \angle RGA$	③ Subtraction Property
④ $\overline{GR} \parallel \overline{MA}$	④ Alt. int. \angle 's $\cong \Rightarrow \parallel$ lines

Given: $\square ABCD$ (means \parallel -gram)

$$\angle D = (3x - 4)^\circ$$

$$\angle A = x^\circ$$

Find $m\angle C$. $\overline{DC} \parallel \overline{AB} \Rightarrow \text{SSI } \angle$
Supp. $\therefore \angle A + \angle D = 180^\circ$
 $x + 3x - 4 = 180$
 $4x - 4 = 180$
 $4x = 184$
 $x = 46$

$$\angle A = 46^\circ, \angle D = 134^\circ$$

But $\overline{AD} \parallel \overline{BC}$ also means $\angle D + \angle C = 180^\circ$.

$$\therefore \angle D + \angle C = 180 \Rightarrow 134 + \angle C = 180$$

$$\begin{array}{r} -134 \\ \hline \angle C = 46 \end{array}$$

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Use this page to write definitions.

Quadrilateral Family Tree: Definitions

- A **Quadrilateral** with **two pairs of || sides**

Parallelogram

*2 pairs of
|| sides*

A 4 sided convex polygon.
"many"

Quadrilateral
○ || sides

- A **quadrilateral** with two disjoint pairs of consecutive sides \cong .

Kite

- A **quad** with exactly one pair of || sides (|| sides called bases)

Trapezoid

pair || sides

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• A parallelogram with at least one right \angle .
Rectangle

• A ||-gram with at least two consecutive sides \cong .
Rhombus

• A parallelogram that is both a rectangle and rhombus.
Square

• A trapezoid with non-parallel sides (called legs) \cong .
Isosceles Trapezoid

Find Replace Select Editing

Page: 1 of 2 Words: 31 11.69 x 8.27 in 100% 11

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5A Quadrilateral Flowchart [Compatibility Mode] - Microsoft Word

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Isosceles Trapezoid

Rectangle

Rhombus

Square

```
graph TD; Rectangle --> Rhombus; Rectangle --> Square; Rhombus --> Square; IsoscelesTrapezoid
```