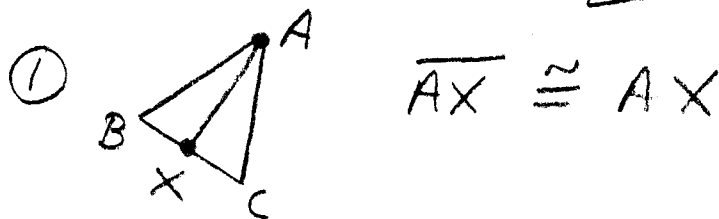


BE-Geometry I THURSDAY 10-14-10

Name THE property of congruence:



② $\triangle ABC \cong \triangle DEF$
 $\therefore \triangle DEF \cong \triangle ABC$

NOTE:
means
"therefore"

③ $\angle A \cong \angle B$
 $\angle B \cong \angle C$
 $\therefore \angle A \cong \angle C$

Solve using THE QUADRATIC FORMULA:

④ $-5x^2 + 8x = 1$

⑤ $3x^2 - 5x = 0$

ANS) ① REFLEXIVE ② SYMMETRIC ③ TRANSITIVE

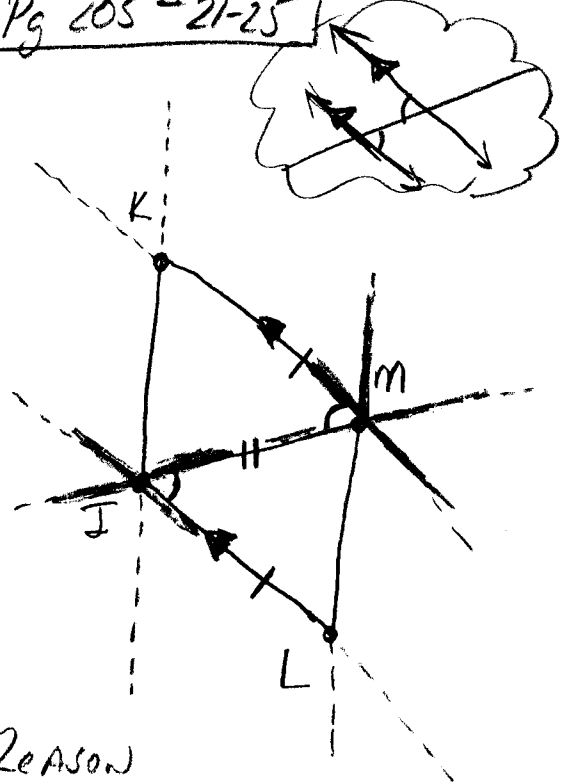
④ $-5x^2 + 8x - 1 = 0$
 $a = -5$ $b^2 - 4ac$
 $b = 8$ $(8)^2 - 4(-5)(-1)$
 $c = -1$ $64 - 20 = 44 = d$
 $x = \frac{-b \pm \sqrt{d}}{2a} = \frac{-8 \pm 2\sqrt{11}}{-10}$
 $x = \frac{4 \pm \sqrt{11}}{5}$

$3x^2 - 5x + 0 = 0$
 $a = 3$ $b^2 - 4ac$
 $b = -5$ $(-5)^2 - 4(3)(0)$
 $c = 0$ $25 = d$
 $x = \frac{-b \pm \sqrt{d}}{2a} = \frac{5 \pm 5}{6}$
 $x = \left\{ \frac{5}{3}, 0 \right\}$

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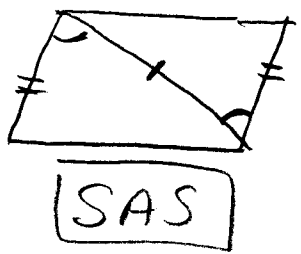
GIVEN: $\overline{KM} \parallel \overline{IL}$
 $\overline{KM} \cong \overline{IL}$

Prove $\triangle JKM \cong \triangle MLJ$

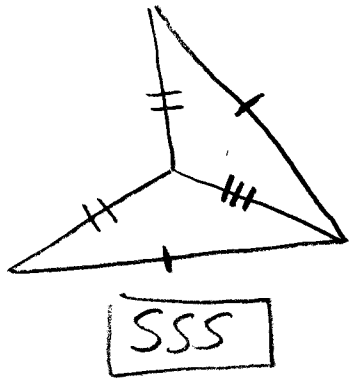


Statement	Reason
$\overline{KM} \cong \overline{IL}$	GIVEN
$\overline{JM} \cong \overline{JM}$	REFLEXIVE PROPERTY
$\overline{KM} \parallel \overline{IL}$	GIVEN
$\angle M \cong \angle J$	ALT. INT. $\angle S \cong$
$\triangle JKM \cong \triangle MLJ$	SAS POSTULATE

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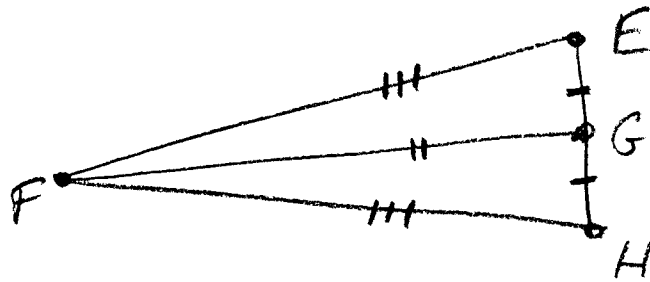


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(21) $\overline{EF} \cong \overline{HF}$
 G is midpoint of \overline{EH} } Given

PROVE: $\triangle EFG \cong \triangle HFG$



STATEMENT	REASON
$\overline{EF} \cong \overline{HF}$	Given
$\overline{EG} \cong \overline{GH}$	Given, def. of midpoint
$\overline{FG} \cong \overline{FG}$	Reflexive Property
$\triangle EFG \cong \triangle HFG$	SSS POSTULATE

