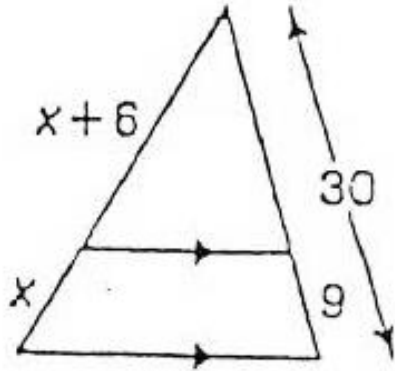


Unit 3 Day 15

Midterm Review

Warm Up: Midterm Review

1. Solve for x .



2. Solve $5x^2 + 6x = 7$. **Give an exact answer.**

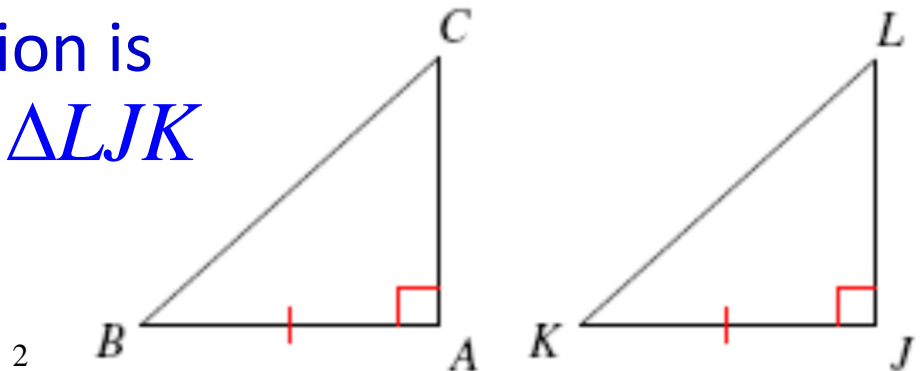
3. H is in the interior of $\angle IGF$.

You are given that $m\angle IGH = (2x + 5)$,
 $m\angle FGH = 47$, $m\angle IGF = (18x - 12)$.
Find $m\angle IGH$ and $m\angle FGI$.

***ADD two more. These are not in printed notes!!**

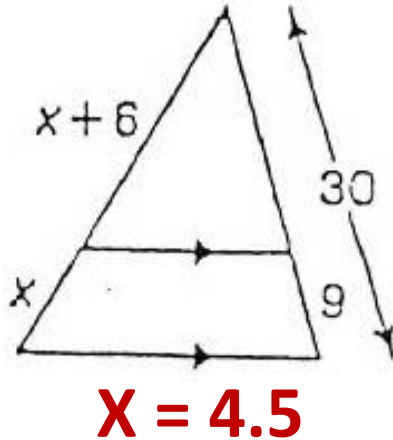
4. Solve $10^{x-3} = 100,000$

5. What additional information is required to prove $\triangle CAB \cong \triangle LJK$ using the AAS Congruence postulate?



Warm Up: Midterm Review

1. Solve for x.



2. Solve $5x^2 + 6x = 7$. Give $\frac{-3 \pm 2\sqrt{11}}{5}$ an exact answer.

3. H is in the interior of $\angle IGF$.

You are given that $m\angle IGH = (2x + 5)$,
 $m\angle FGH = 47$, $m\angle IGF = (18x - 12)$. Find
 $m\angle IGH$ and $m\angle FGI$.

$m\angle IGH = 13$

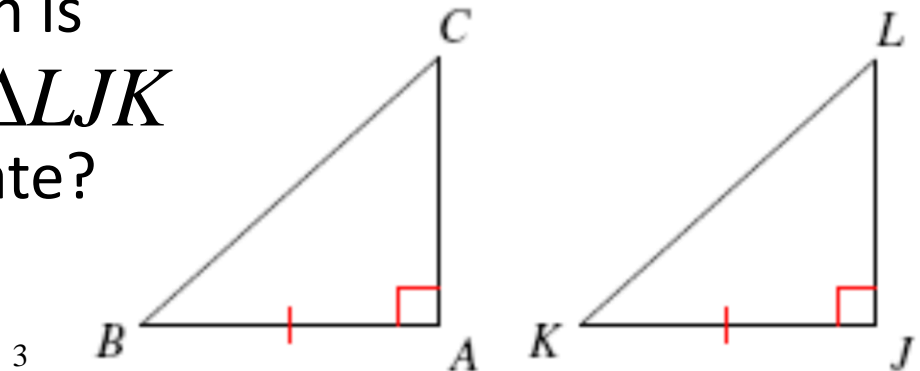
$m\angle FGI = 60$

*ADD two more. These are not in printed notes!!

4. Solve $10^{x-3} = 100,000$ **x = 2**

5. What additional information is required to prove $\triangle CAB \cong \triangle LJK$ using AAS Congruence postulate?

$\angle BCA \cong \angle KLJ$



Homework Answers Pg 28

1. a) $A(2, 6), B(2, 12), C(-6, 2)$
b) $A(-3, 1), B(-6, 1), C(-1, -3)$
c) $A(-1, -3), B(-1, -6), C(3, -1)$
d) $A(-1, 3), B(-1, 6), C(3, 1)$
e) $A(-3, -1), B(-6, -1), C(-1, 3)$
2. $x = 9, y = 75^\circ, z = 70^\circ$
3. $x = 4, y = 6$
4. $x = 11/4$
5. Translation right 4 down 2
6. a) ASA $\triangle PNO \cong \triangle MNL$
b) ASA $\triangle STR \cong \triangle VTR$
c) SAS $\triangle PNO \cong \triangle MNL$
d) SSS $\triangle HKM \cong \triangle LMK$

Homework Answers Pg 29

7. $(x + 1)(3x + 5)$ 8. $x = \frac{-7 \pm \sqrt{-71}}{2}$ 9. $x = \frac{-7 \pm 5\sqrt{13}}{6}$

10. 0 \rightarrow if discriminant is negative

1 \rightarrow if discriminant is zero

2 \rightarrow if discriminant is positive

11. If the discriminant is negative it will have two imaginary solutions

12. Rational \rightarrow when the discriminant is a perfect square

13. height: 53.64 ft time until impact: 2.42 sec

14. $y = 0.75x^2 - 7.5x + 15.75$

15. a) $5x \sqrt[5]{x^2}$ b) $4xy^3z^7 \sqrt[3]{x^2y}$

16. $x = 21$

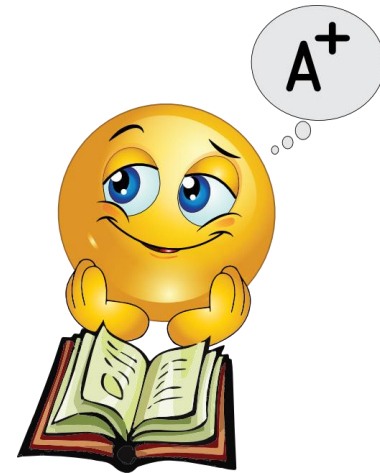
17. $(x - 6)/3 = y$

18. $r = 1.44\%$



Homework For Tonight:
Complete Midterm Review Packet!!

STUDY FOR MIDTERM TOMORROW 😊



Midterm Review Activity!

On notebook paper...

REVIEW Scavenger Hunt

Letter	Question	Work	Solution(s)

