

CSA #1
SEMESTER 1 MIDTERM
REVIEW SESSION

Oct 9-3:37 PM

Bring a calculator! Distance formula problems are asking for answer to nearest tenth.

You will have distance and midpoint formulas provided for you.

Oct 5-8:41 AM

1. Use points $P(2, 1)$, $Q(5, 4)$, $R(8, 1)$, to determine which segments are congruent.

$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

$PQ = \sqrt{(5-2)^2 + (4-1)^2}$
 $\quad \sqrt{9+9}$
 $\quad \sqrt{18}$
 $\quad 4.2$

$QR = \sqrt{(8-5)^2 + (1-4)^2}$
 $\quad \sqrt{9+9}$
 $\quad \sqrt{18}$
 $\quad 4.2$

$PR = \sqrt{(8-2)^2 + (1-1)^2}$
 $\quad \sqrt{36+0}$
 $\quad \sqrt{36}$
 $\quad 6$

$\overline{PQ} \cong \overline{QR}$

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2. M is between L and P , N is between M and P , P is between M and Q . $LQ = 50$, $MP = 24$, $LM = MN = NP$. What is the length of PQ ?

3. Given $G(7, 8)$ and $H(-8, -7)$, find GH .

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4. Two angles are supplementary and one angle has a measure that is 5 times the measure of the other angle. What is the measure of the larger angle?

$5x$ / x

$x + 5x = 180$
 $6x = 180$
 $x = 30$
 $5x = 150$

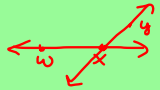
Oct 9-4:04 PM

5. Point B is between A and C . Use the Segment Addition Postulate to solve for x when $AB = 6x - 7$, $BC = x + 2$, and $AC = 3x + 15$.

$6x - 7 + x + 2 = 3x + 15$
 $7x - 5 = 3x + 15$
 $-3x - 5 = 15$
 $+5 + 5$
 $4x = 20$
 $x = 5$

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6. \overleftrightarrow{WX} and \overleftrightarrow{XY} intersect at X ?



7. Use the following conditional statement:
 "If today is Friday, then tomorrow is Saturday."

What is the HYPOTHESIS? CONCLUSION? CONVERSE?
 INVERSE? CONTRAPOSITIVE?
 Can we write a true BICONDITIONAL?

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Name the property of equality that justifies each statement.


- If $AB = XY$, then $XY = AB$ *Symmetric*
- If $x + 3 = 17$, then $x = 14$ *Subst.*
- $CD = CD$ *reflexive*
- If $7x = 42$, then $x = 6$ *division*
- If $MN - QP = RS$, then $MN = RS + QP$ *add.*
- $5(x + 7) = 5x + 35$ *distrib.*
- If $m\angle A + m\angle B = 90$, and $m\angle A = 30$, then $30 + m\angle B = 90$ *subst.*
- If $x = z + 4$ and $z + 4 = 12$, then $x = 12$ *trans.*

Sep 21-9:23 AM

Use the property to complete each statement.

- ADDITION ... If $x = 3$, then $x + 7 =$ 10
- SUBTRACTION ... If $y = 23$, then $y - 11 =$ 12
- MULTIPLICATION ... If $a = 50$, then $(1/2)a =$ 25
- DIVISION ... If $7x = 28$, then $x =$ 4
- DISTRIBUTIVE ... If $3(x + 2)$, then $3x + 6$
- SUBSTITUTION ... If $x = 3y - 1$ and $y = 6$, then $x =$ 17
- TRANSITIVE... If $x = 5y$, and $5y = 10$, then $x =$ 10
- SYMMETRIC ... If $AB = CD$, then $CD = AB$

Sep 17-11:01 PM



Convex octagon Concave

- 3 triangle
- 4 quadrilateral
- 5 pentagon
- 6 hexagon
- 7 heptagon
- 8 octagon
- 9 nonagon
- 10 decagon
- 11 11-gon
- 12 dodecagon
- 13 13-gon

Oct 4-7:13 PM