Analytic Geometry

February 29, 2016

Test Review
Congruent Triangles & Quadrilaterals

MCC9-12.G.CO.7 Use the definition of congruence in terms of rigid motions to show that two triangles are congruent if and only if corresponding pairs of sides and corresponding pairs of angles are congruent.

MCC9-12.G.CO.11 Prove theorems about parallelograms. Theorems include: opposite sides are congruent, opposite angles are congruent, the diagonals of a parallelogram bisect each other, and conversely, rectangles are parallelograms with congruent diagonals.

Oct 2-7:10 AM

Put check marks in ALL the boxes that are appropriate.

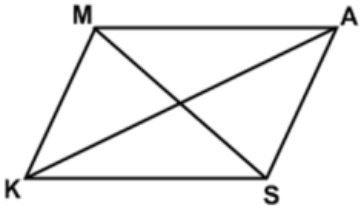
1)	Opposite sides are parallel	✓	✓	✓	✓
2)	Opposite sides are congruent	✓	✓	✓	✓
3)	Opposite angles are congruent	✓	✓	✓	✓
4)	Consecutive angles are supplementary	✓	✓	✓	✓
5)	Diagonals bisect each other	✓	✓	✓	✓
6)	Diagonals are congruent		✓		✓
7)	Diagonals are perpendicular			✓	✓
8)	A diagonal bisects two angles			✓	✓
9)	All angles are right angles		✓		✓
10)	All sides are congruent			✓	✓

Oct 6-1:39 PM

Use parallelogram MASK to answer questions 11 – 14.

11) If MK=5x-10 and SA = 7x-18, then x = 4

12) Then the measure of MK = 10

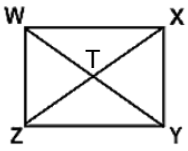


13) If $m\angle KMA$ = 3y+27 and $m\angle MKS$ =6y-45, then y = 22

14) Then, $m\angle KMA$ = 93

Oct 2-3:38 PM

Use recta ...wer questions 15-19.



15) If WY=37, then ZX = 37

16) If ZX=52, then WT = 26

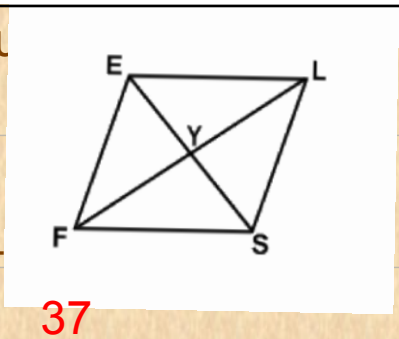
17) If m<TWZ=65°, then m<TZW = 65°

18) and m<WTZ = 50°

19) If WY = 4a + 18 and TW = 3a - 4, then a = 13

Apr 14 - 3:38 AM

Use rhombus ELSF for qu



20) m<EYF = 90°

21) If EF=37, then EL = 37

22)IF LF=48, then LY= 24

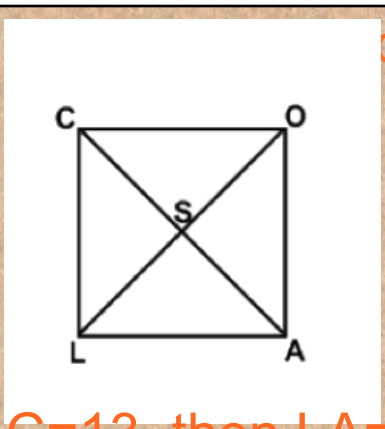
23) If m<ESF=54°, then m<SEF = 54°

24) If m<ELS=5x-1, and m<FLS=2x+8, then x = 17.

25) If m<LEF =2y+24 and m<ELS=3y-14, then y = 38.

Sep 28-8:16 PM

Use sq questions 26-28.



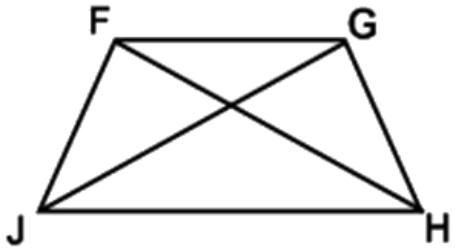
26) If LC=13, then LA= 13 and AO = 13

27) If CA=17, then LO= 17 and LS = 8.5

28)m<ACO= 45° and m<CLA= 90°

Sep 28-8:24 PM

Use isosceles trapezoid FGHJ f



29) If FJ=22, then GH = 22

30) If JG =28, then FH = 28

31) If $m\angle JFG$ =98, then $m\angle FGH$ = 98

32) If $m\angle GHJ$ = 84°, then $m\angle FJH$ = 84°

33) If $m\angle FJH$= 82, $m\angle JFG$= 98°

Oct 2-4:50 PM

Use isosceles trapezoid ABCD for problem

34) If AF=8, then BG= 8

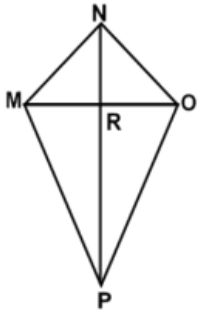
35) If AB=24, then DC=36, then FG 30

36) If AB=14 and FG=22, then DC=30

37) If AB=3x+2, FG=4x-2, and DC=34, then x= 8
and FG = 30

Oct 2-5:04 PM

Use kite MI ɔlems 38-44.



38) If MN=15, then NO = 15. 39) IF OP=26, then MP= 26.

40) If MR=12, then RO = 12. 41) $m\angle NRO$ = 90°.

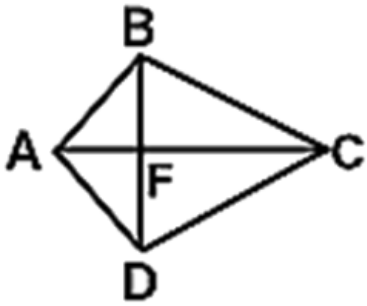
42) If $m\angle MNO$ =88°, then $m\angle MNR$= 44.

43) If $m\angle NMP$=96°, then $m\angle NOP$ = 96°.

44) $m\angle MPO$=82°, then $m\angle ROP$= 49°.

Oct 2-5:13 PM

Us 45-46.



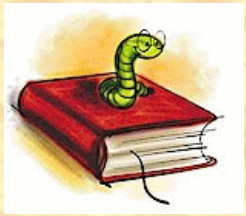
45) IF AD=15 and AF=9, then FD= 12 and FB= 12

46) If FD=10 and FC=24, then DC= 26

Oct 2-5:19 PM

47) What type of quadrilateral has the vertices A(-10,4), B(-2, 10), C(4,2), D(-4,-4)?

Feb 26-10:48 AM



Study for your Test!

Oct 6-4:26 PM