Geometry 1 - Mr. C. Name_____

Practice for Q1 Exam 2

Date_____ Period____

Find the slope of each line.

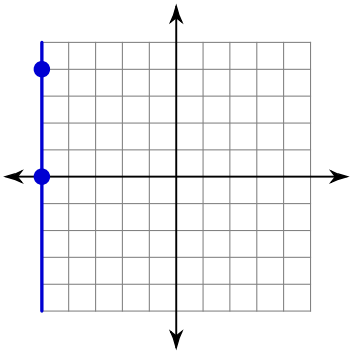
1) $2x - \frac{4}{3} = \frac{4}{3}y$

2) $-5y - 5 = -4x$

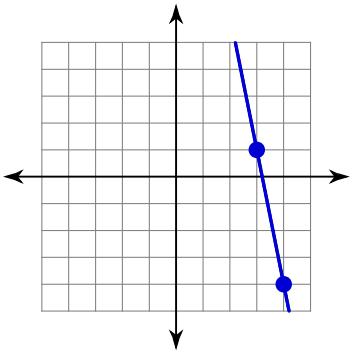
3) $-3y - x = 0$

4) $y = -2 + 2x$

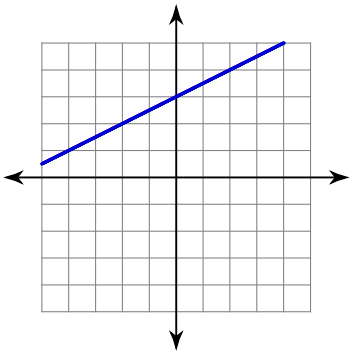
5)



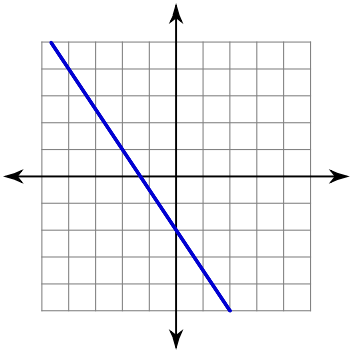
6)



7)



8)



Find the slope of the line through each pair of points.

9) $(7, -1), (10, -12)$

10) $(-6, -13), (12, -18)$

11) $(11, 20), (-11, -15)$

12) $(-18, 7), (2, 5)$

Find the slope of a line parallel to each given line.

13) $0 = -2y + 4x - 6$

14) $0 = -x - 3y - 12$

15) $5y = -20 + 7x$

Find the slope of a line perpendicular to each given line.

16) $-6 - 3y = 3x$

17) $y = x - 3$

18) $6 + 3y = -5x$

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

19) Slope = –3, y-intercept = –5

20) Slope = $\frac{2}{5}$, y-intercept = 2

21) Slope = –2, y-intercept = 4

Write the slope-intercept form of the equation of the line through the given points.

22) through: $(1, 2)$ and $(-2, -5)$

23) through: $(2, -5)$ and $(5, 1)$

24) through: $(1, -5)$ and $(-3, 3)$

Write the slope-intercept form of the equation of the line through the given point with the given slope.

25) through: $(4, 2)$, slope = $-\frac{3}{4}$

26) through: $(-3, -4)$, slope = 3

27) through: $(2, 4)$, slope = undefined

Write the point-slope form of the equation of the line through the given point with the given slope.

28) through: $(2, -1)$, slope = 2

29) through: $(5, 4)$, slope = $\frac{9}{5}$

30) through: $(1, -1)$, slope = $\frac{1}{3}$

Write the point-slope form of the equation of the line described.

31) through: $(0, -2)$, parallel to $y = 1$

32) through: $(0, 0)$, parallel to $y = -\frac{2}{5}x + 1$

33) through: $(0, -5)$, parallel to $y = x + 2$

34) through: $(0, 2)$, perp. to $y = 5x - 1$

35) through: $(0, -5)$, perp. to $y = \frac{2}{5}x$

36) through: $(0, -3)$, perp. to $y = -\frac{1}{2}x$

Answers to Practice for Q1 Exam 2 (ID: 1)

1) $\frac{3}{2}$

2) $\frac{4}{5}$

3) $-\frac{1}{3}$

4) 2

5) Undefined

6) -5

7) $\frac{1}{2}$

8) $-\frac{3}{2}$

9) $-\frac{11}{3}$

10) $-\frac{5}{18}$

11) $\frac{35}{22}$

12) $-\frac{1}{10}$

13) 2

14) $-\frac{1}{3}$

15) $\frac{7}{5}$

16) 1

17) -1

18) $\frac{3}{5}$

19) $y = -3x - 5$

20) $y = \frac{2}{5}x + 2$

21) $y = -2x + 4$

22) $y = \frac{7}{3}x - \frac{1}{3}$

23) $y = 2x - 9$

24) $y = -2x - 3$

25) $y = -\frac{3}{4}x + 5$

26) $y = 3x + 5$

27) $x = 2$

28) $y + 1 = 2(x - 2)$

29) $y - 4 = \frac{9}{5}(x - 5)$

30) $y + 1 = \frac{1}{3}(x - 1)$

31) $y + 2 = 0$

32) $y = -\frac{2}{5}x$

33) $y + 5 = x$

34) $y - 2 = -\frac{1}{5}x$

35) $y + 5 = -\frac{5}{2}x$

36) $y + 3 = 2x$

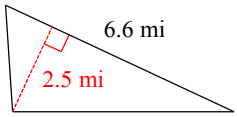
Geometry 1 - Mr. C. Name_____

Practice for Q1Exam 2

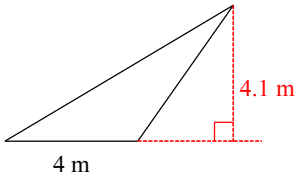
Date_____ Period____

Find the area.

37)



38)



Find the area of each circle. Exact answer.

39) radius = 8 ft

40) radius = 11 cm

Find the circumference of each circle. Exact answer.

41) radius = 5 m

42) radius = 12 yd

Find the midpoint of the line segment with the given endpoints.

43) $(-1, 5)$, $(4, 8)$

44) $(6, -2)$, $(3, 7)$

45) $(9, 7)$, $(10, -3)$

46) $(3, 1)$, $(10, -3)$

Find the distance between each pair of points.

47) $(3, 1)$, $(3, -7)$

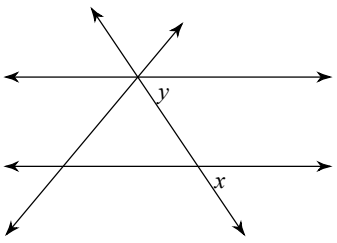
48) $(-6, -3)$, $(-4, -5)$

49) $(0, -4)$, $(-2, -6)$

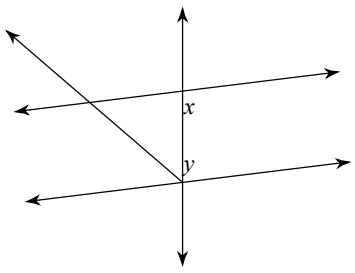
50) $(-3, 1)$, $(1, -6)$

Identify each pair of angles as corresponding, alternate interior, alternate exterior, consecutive interior, or vertical.

51)



52)



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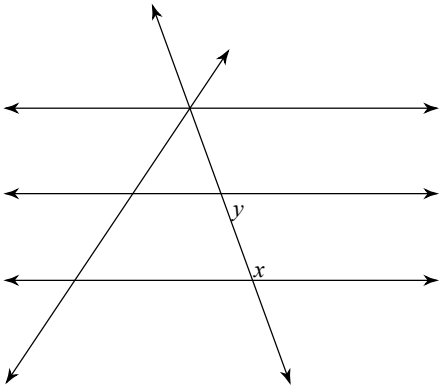
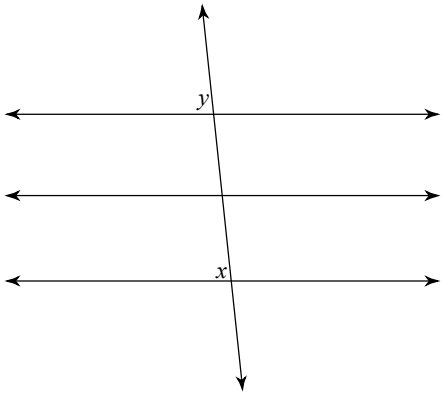
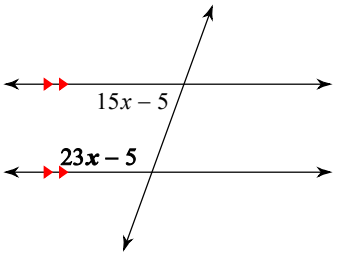


54)



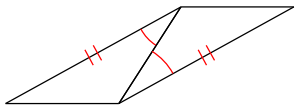
Find the measure of the angle indicated in bold.

55)

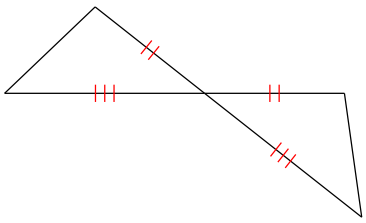


State if the two triangles are congruent. If they are, state how you know.

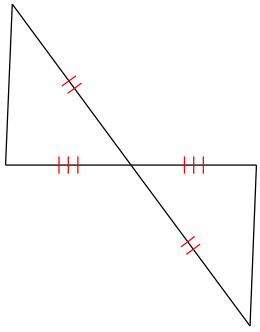
56)



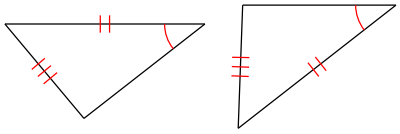
57)



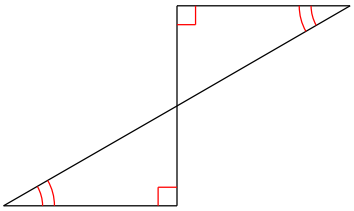
58)



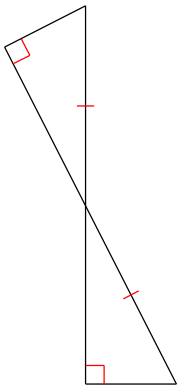
59)



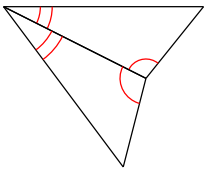
60)



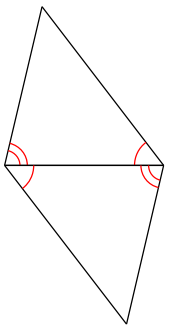
61)



62)

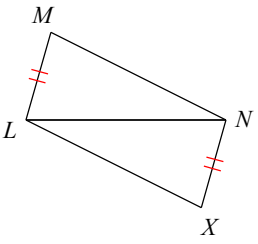


63)

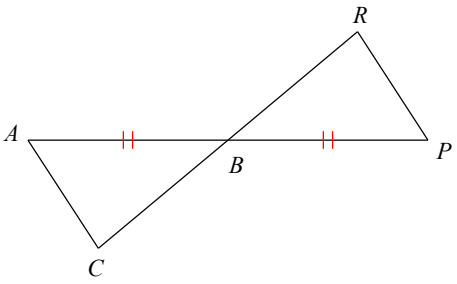


State what additional information is required in order to know that the triangles are congruent for the reason given.

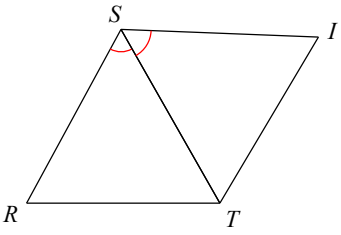
64) SSS



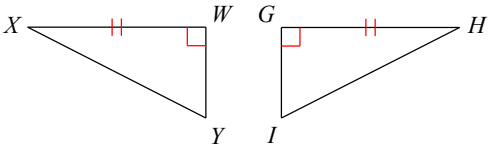
65) SAS



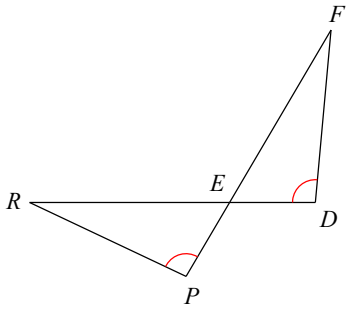
66) SAS



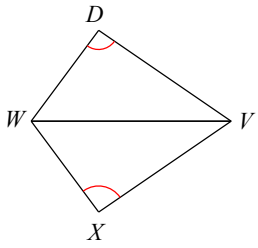
67) SAS



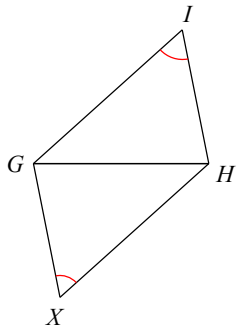
68) ASA



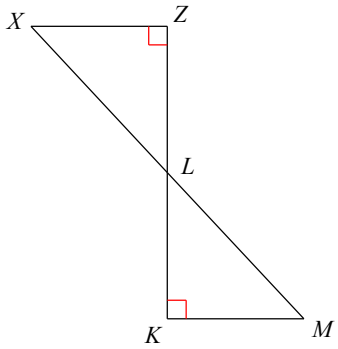
69) AAS



70) AAS

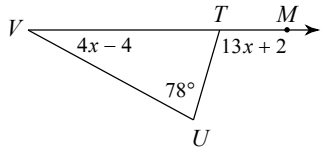


71) ASA

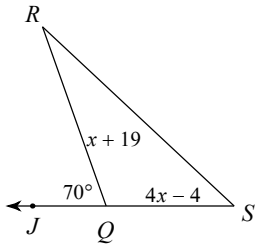


Solve for *x*.

72) Find $m\angle V$.



73) Find $m\angle S$.



State if the three numbers can be the measures of the sides of a triangle.

74) 11, 6, 20

75) 8, 10, 18

76) 7, 9, 3

77) 10, 11, 12

Answers to Practice for Q1Exam 2 (ID: 1)

37) 8.25 mi²
38) 8.2 m²
39) 64π ft²
40) 121π cm²
41) 10π m
42) 24π yd
43) $\left(1\frac{1}{2}, 6\frac{1}{2}\right)$
44) $\left(4\frac{1}{2}, 2\frac{1}{2}\right)$
45) $\left(9\frac{1}{2}, 2\right)$
46) $\left(6\frac{1}{2}, -1\right)$
47) 8
48) $2\sqrt{2}$
49) $2\sqrt{2}$
50) $\sqrt{65}$
51) corresponding
52) consecutive interior
53) consecutive interior
54) corresponding
55) 110°
56) SAS
57) SAS
58) SAS
59) Not congruent
60) Not congruent
61) AAS
62) ASA
63) ASA
64) $\overline{MN} \cong \overline{XL}$
65) $\overline{BC} \cong \overline{BR}$
66) $\overline{RS} \cong \overline{IS}$
67) $\overline{YW} \cong \overline{IG}$
68) $\overline{DE} \cong \overline{PE}$
69) $\angle XWV \cong \angle DWV$ or $\angle WVX \cong \angle WVD$
70) $\angle IHG \cong \angle XGH$ or $\angle HGI \cong \angle GHX$
71) $\overline{KL} \cong \overline{ZL}$ or $\overline{MK} \cong \overline{XZ}$
72) 28°
73) 40°
74) No
75) No
76) Yes
77) Yes