Geometry Name_____

# Weekend Review #2

Date_____ Period____

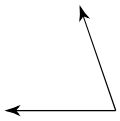


**Classify each angle as acute, obtuse, right, or straight.**

1)

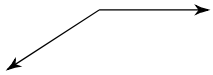
A) right B) obtuse
C) straight D) acute

2)



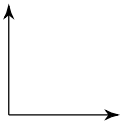
A) right B) straight
C) acute D) obtuse

3)



A) obtuse B) acute
C) straight D) right

4)



A) right B) straight
C) obtuse D) acute

5) 143°

A) obtuse B) right
C) acute D) straight

6) 62°

A) right B) obtuse
C) acute D) straight

7) 180°

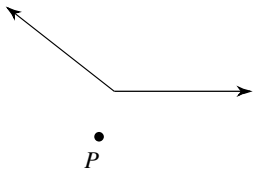
A) right B) straight
C) acute D) obtuse

8) 90°

A) straight B) obtuse
C) acute D) right

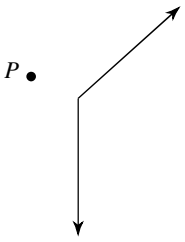
**State if the given point is interior, exterior, or on the angle.**

9)




A) Exterior B) On the angle
C) Interior

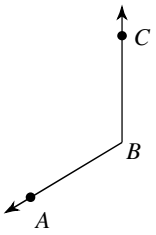
10)




A) On the angle B) Exterior
C) Interior

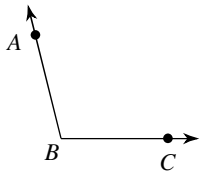
**Name the vertex and sides of each angle.**

11)




A) $A$, $\overrightarrow{BA}$ and $\overrightarrow{BC}$
B) $B$, $\overrightarrow{BA}$ and $\overrightarrow{AC}$
C) $B$, $\overrightarrow{BA}$ and $\overrightarrow{BC}$
D) $A$, $\overrightarrow{AB}$ and $\overrightarrow{AC}$

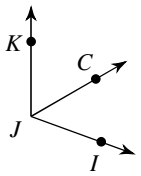
12)




A) $A$, $\overrightarrow{BA}$ and $\overrightarrow{BC}$
B) $B$, $\overrightarrow{BA}$ and $\overrightarrow{BC}$
C) $B$, $\overrightarrow{BA}$ and $\overrightarrow{AC}$
D) $C$, $\overrightarrow{BA}$ and $\overrightarrow{BC}$

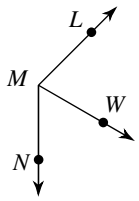
**Answer each question as directed.**

13) $m\angle KJC = 7x - 10$, $m\angle KJI = 11x$, and $m\angle CJI = 50°$. Find $m\angle KJC$.




A) 60°
B) 37°
C) 66°
D) 78°

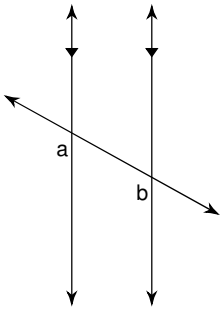
14) $m\angle LMW = x + 80$, $m\angle WMN = x + 65$, and $m\angle LMN = 135°$. Find $m\angle LMW$.




A) 89°
B) 53°
C) 75°
D) 7°

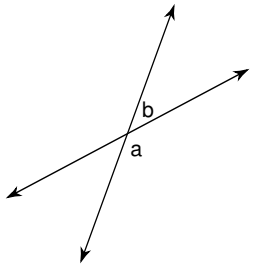
**Name the relationship: complementary, linear pair, vertical, adjacent, alternate interior, corresponding, or alternate exterior.**

15)



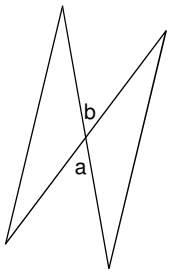

A) adjacent
B) linear pair
C) alternate interior
D) corresponding

16)



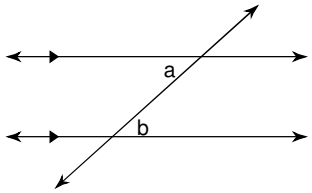

A) vertical
B) linear pair
C) complementary
D) alternate interior

17)




A) linear pair
B) alternate exterior
C) adjacent
D) vertical

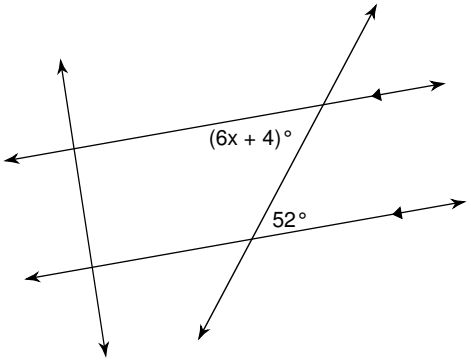
18)




A) corresponding
B) alternate interior
C) complementary
D) alternate exterior

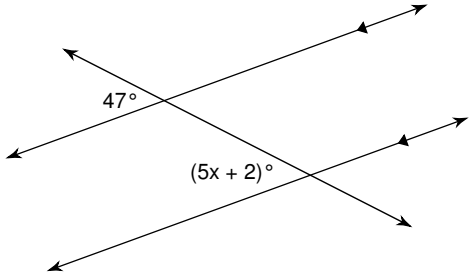
**Find the value of x.**

19)



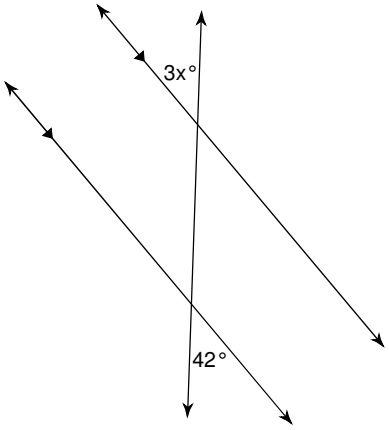

A) 4 B) 5
C) 8 D) 2

20)



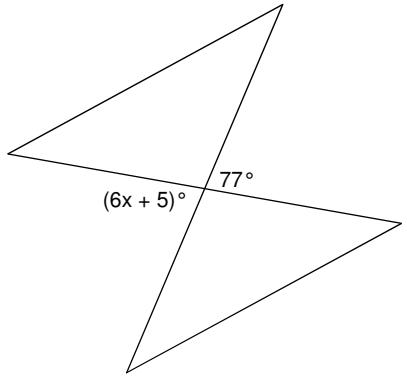

A) 9 B) 1
C) 2 D) 4

21)



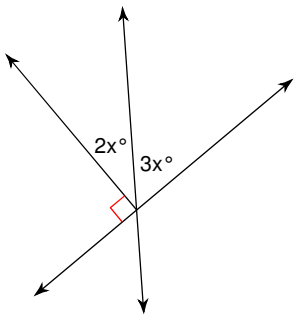

A) 17 B) 18
C) 16 D) 14

22)



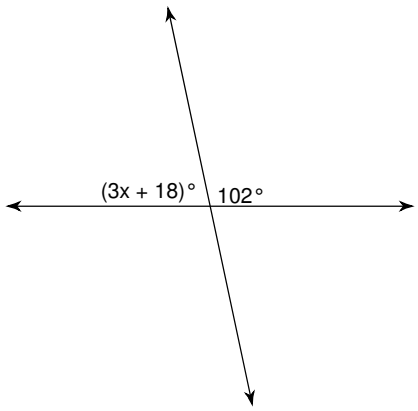

A) 17 B) 12
C) 13 D) 14

23)




A) 21 B) 18
C) 23 D) 24

24)




A) 20 B) 14
C) 8 D) 10

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

25) $(8, 2),\ (-10, -1)$

A) $\left(-1, \frac{1}{2}\right)$ B) $\left(5, -5\frac{1}{2}\right)$
C) $(-28, -4)$ D) $\left(9, 1\frac{1}{2}\right)$

26) $(-8, -5),\ (-10, 7)$

A) $(-12, 19)$ B) $(-9, 1)$
C) $(1, -6)$ D) $\left(-6\frac{1}{2}, -1\frac{1}{2}\right)$

**Find the distance between each pair of points.**

27) $(-6, 3),\ (8, -3)$

A) 2 B) $2\sqrt{58}$
C) $2\sqrt{5}$ D) $\sqrt{5}$

28) $(8, -1),\ (-6, -2)$

A) $\sqrt{15}$ B) $\sqrt{5}$
C) $\sqrt{13}$ D) $\sqrt{197}$

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

29) $(13, -13), (2, 14)$

A) $-\frac{11}{27}$ B) $\frac{11}{27}$
C) $\frac{27}{11}$ D) $-\frac{27}{11}$

**Find the slope of each line.**

30) $x = 4$

A) 0 B) Undefined
C) $-\frac{1}{3}$ D) $\frac{1}{3}$

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

31) $y = -2x + 4$

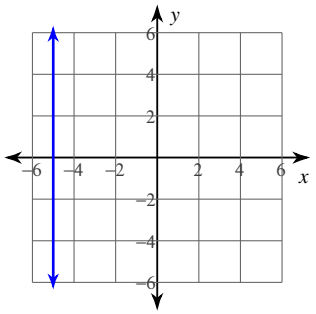
A) 2 B) $\frac{1}{2}$

C) $-2$ D) $-\frac{1}{2}$

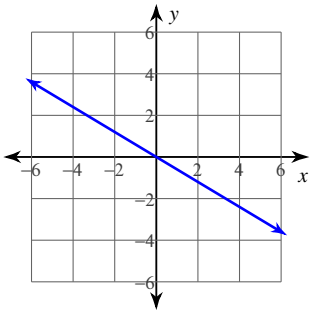
**Sketch the graph of each line.**

33) $y = -\frac{5}{3}x$

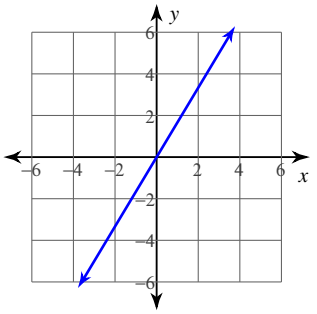
A)



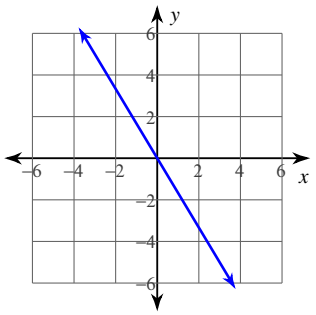

B)




C)




D)




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

32) $y = 5$

A) 0 B) 1

C) Undefined D) $-1$

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

34) through: $(5, 1)$, slope $= -\frac{4}{5}$

A) $y = x + 5$

B) $y = -5x + 5$

C) $y = \frac{4}{5}x + 5$

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

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

35) through: $(0, -4)$ and $(2, 4)$

A) $y = 4x + 4$ B) $y = -4x - 4$

C) $y = -4x + 4$ D) $y = 4x - 4$

**Write the slope-intercept form of the equation of the line described.**

36) through: $(3, 2)$, parallel to $x = 0$

A) $y = -\frac{1}{3}$ B) $y = -\frac{1}{3}x$

C) $x = 3$ D) $x = 1$

37) through: $(5, -4)$, perp. to $y = \frac{5}{3}x + 3$

A) $y = 5x - 1$ B) $y = x - 1$

C) $y = -x + 1$ D) $y = -\frac{3}{5}x - 1$

**Write the slope-intercept form of the equation of each line.**

38) $8x + 5y = -35$

A) $y = -\frac{4}{5}x - 7$

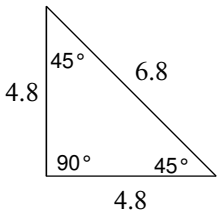
B) $y = -\frac{8}{5}x - 7$

C) $y = \frac{4}{5}x - 7$

D) $y = -7x + \frac{4}{5}$

**Classify each triangle by its angles and sides.**

39)



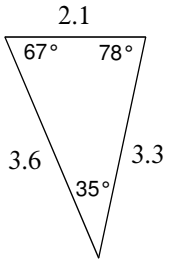

A) right scalene

B) right equilateral

C) right isosceles

D) equilateral

40)




A) equilateral

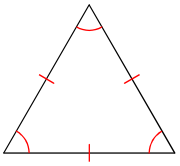
B) acute scalene

C) obtuse scalene

D) obtuse equilateral

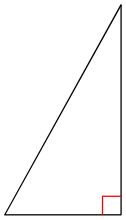
**Classify each triangle by its angles and sides. Equal sides and equal angles, if any, are indicated in each diagram.**

41)



A) right obtuse
B) equilateral
C) right scalene
D) acute isosceles

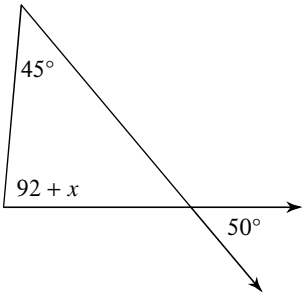
42)



A) obtuse scalene
B) acute isosceles
C) obtuse isosceles
D) right scalene

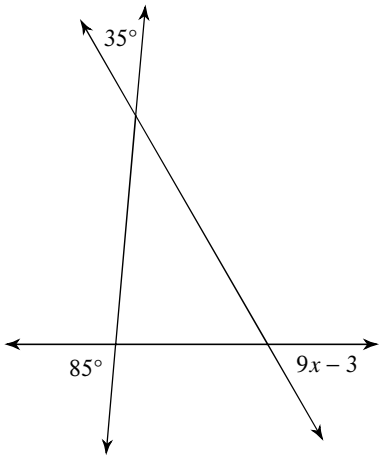
**Solve for $x$.**

43)



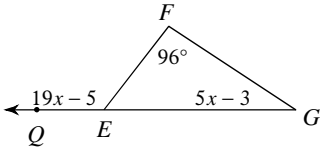

A) 9 B) 8
C) −1 D) −7

44)



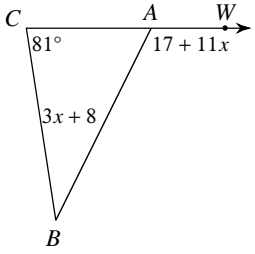

A) 4 B) 7
C) 5 D) 9

45)




A) 11 B) 4
C) 7 D) 12

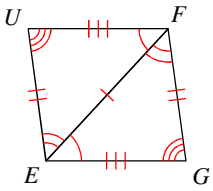
46)




A) 14 B) 9
C) 4 D) 12

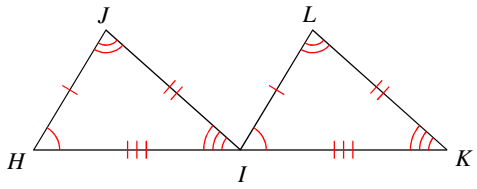
**Write a statement that indicates that the triangles in each pair are congruent.**

47)




A) $\Delta EFG \cong \Delta FEU$
B) $\Delta EFG \cong \Delta EUF$
C) $\Delta GFE \cong \Delta UFE$
D) $\Delta FGE \cong \Delta UEF$

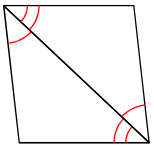
48)




A) $\Delta IHJ \cong \Delta LIK$
B) $\Delta HJI \cong \Delta ILK$
C) $\Delta HJI \cong \Delta KLI$
D) $\Delta JIH \cong \Delta KIL$

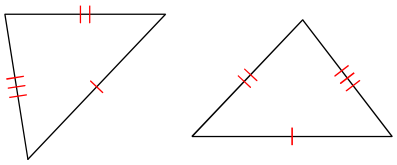
**State if the two triangles are congruent. If they are, state how you know.**

49)



A) ASA
B) Not congruent
C) AAS
D) SSS

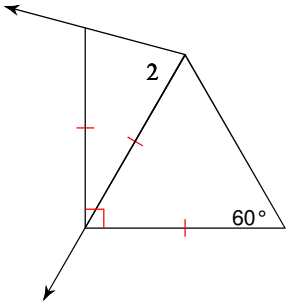
50)



A) AAS
B) SAS
C) Not congruent
D) SSS

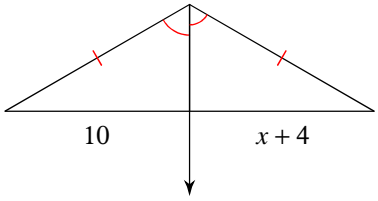
**Find the value of $x$.**

51) $m\angle 2 = x + 81$




A) −11
B) −8
C) −6
D) −10

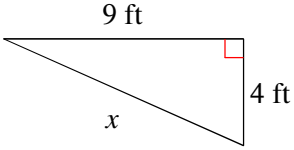
52)




A) −11
B) −6
C) 11
D) 6

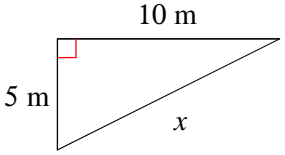
**Find the missing side of each triangle. Leave your answers in simplest radical form.**

53)




A) $\sqrt{65}$ ft
B) $\sqrt{113}$ ft
C) $\sqrt{178}$ ft
D) $\sqrt{97}$ ft

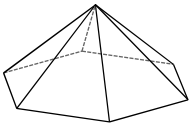
54)




A) $5\sqrt{5}$ m
B) 15 m
C) $5\sqrt{3}$ m
D) $5\sqrt{6}$ m

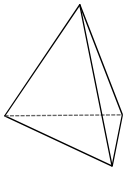
**Name each figure.**

55)



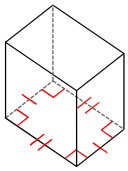
A) pentagonal pyramid
B) hexagonal pyramid
C) pentagonal prism
D) cone

56)



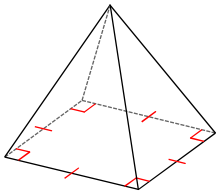
A) triangular pyramid
B) square prism
C) sphere
D) cylinder

57)



A) trapezoidal prism
B) square prism
C) cylinder
D) rectangular prism

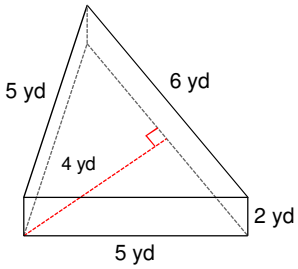
58)



A) cylinder
B) square pyramid
C) pentagonal prism
D) trapezoidal prism

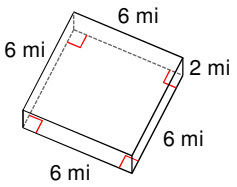
**Find the volume of each figure. Round your answers to the nearest whole, if necessary.**

59)




A) 27 yd³ B) 35 yd³
C) 24 yd³ D) 13 yd³

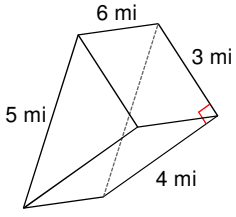
60)




A) 87 mi³ B) 42 mi³
C) 72 mi³ D) 52 mi³

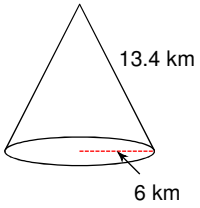
**Find the surface area of each figure. Round your answers to the nearest whole, if necessary.**

61)




A) 99 mi² B) 49 mi²
C) 78 mi² D) 84 mi²

62)




A) 366 km² B) 194 km²
C) 347 km² D) 203 km²

Name: _____ Period: _____

Answer Sheet: Weekend Review #2

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