Geometry 1 - Mr. C. - All work on looseleaf. Name_____

# Practice for Q1 Exam 1 - Part 1 of 2

Date_____ Period____



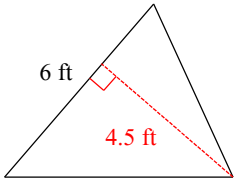
**Solve.**

1) $6 + 7v + 7v = -22$

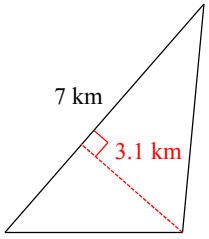
2) $-5 + 3(-3x + 8) = 82$

**Find the area.**

3)




4)




**Find the area of each. Exact answer.**

5) radius = 4 m

6) radius = 8 in

**Find the circumference of each circle. Exact answer.**

7) radius = 3 in

8) radius = 11 cm

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

9) $(10, 4), (-6, -2)$

10) $(-8, 1), (8, -5)$

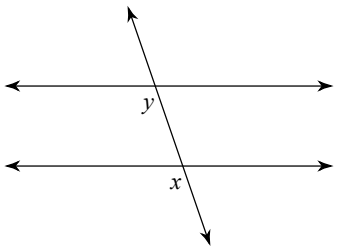
**Find the distance between each pair of points.**

11) $(7, -3), (7, -2)$

12) $(-7, 1), (4, -2)$

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

13)

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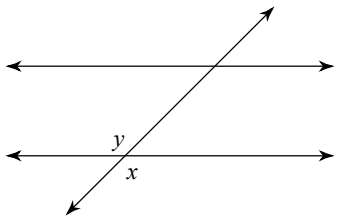

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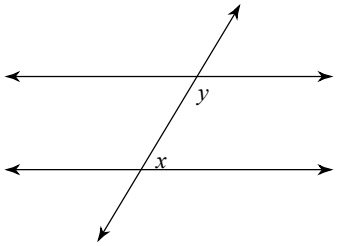


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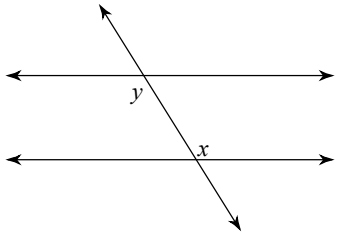


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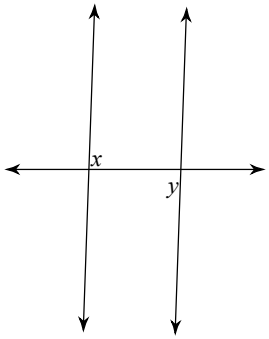


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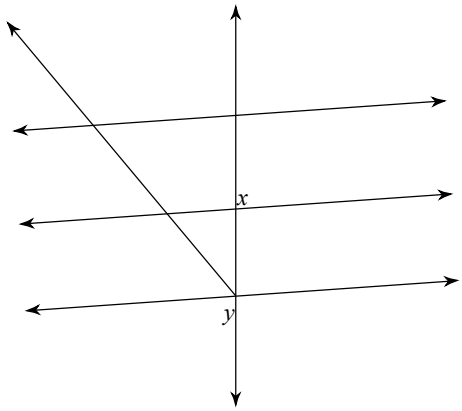


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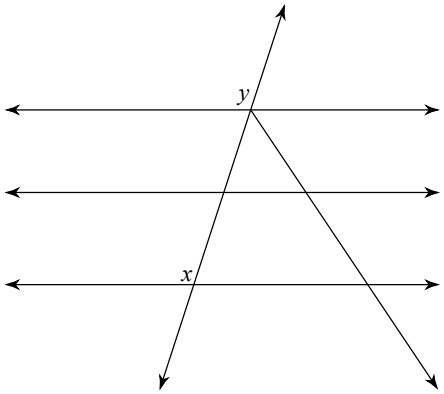


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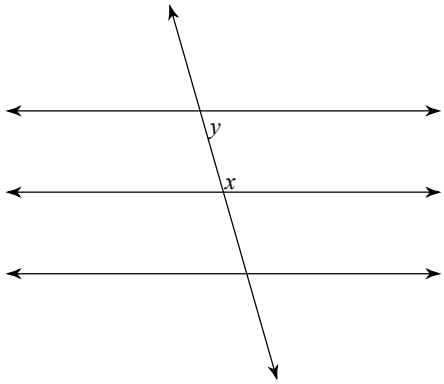
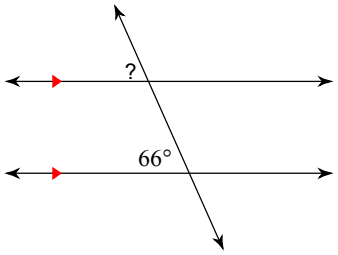



**Find the measure of each angle indicated.**

21)

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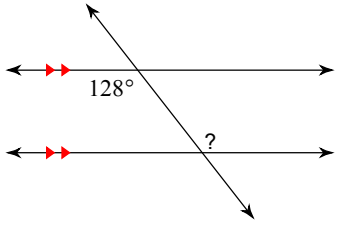
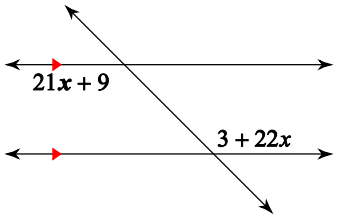


**Find the measure of the angle indicated in bold.**

23)

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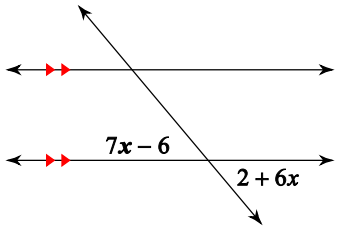


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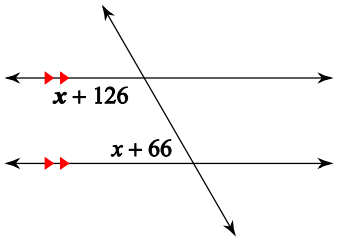


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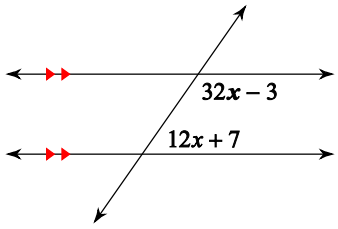


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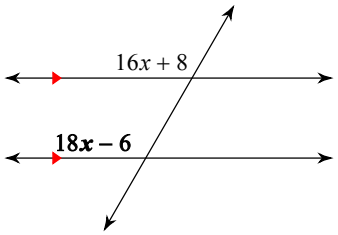


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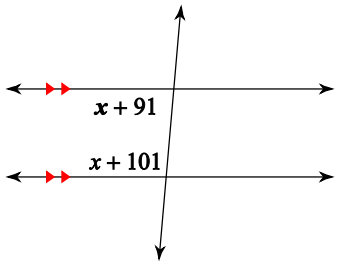


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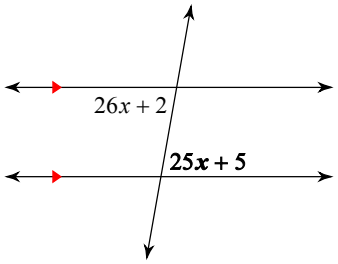
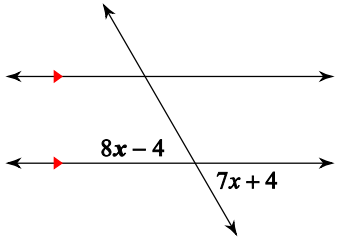



30)

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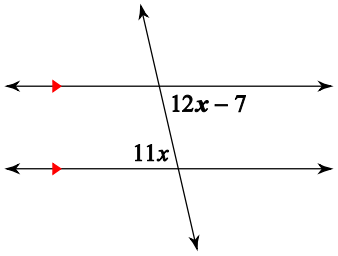


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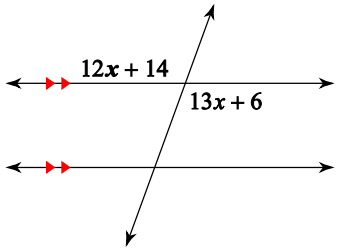


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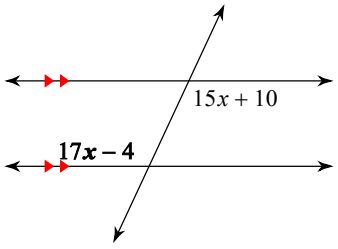


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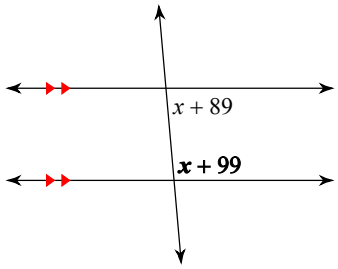


# Answers to Practice for Q1 Exam 1 - Part 1 of 2 (ID: 1)

1) $\{-2\}$
3) 13.5 ft²
5) 16π m²
7) 6π in
9) $(2, 1)$
11) 1
13) corresponding
15) consecutive interior
17) alternate interior
19) corresponding
21) 66°
23) 135°
25) 120°
27) 120°
29) 80°
31) 77°
33) 115°

Geometry 1 - Mr. C. - All work on looseleaf. Name_____

# Practice for Q1 Exam 1 - Part 2 of 2

Date_____ Period____



**Find the slope of each line.**

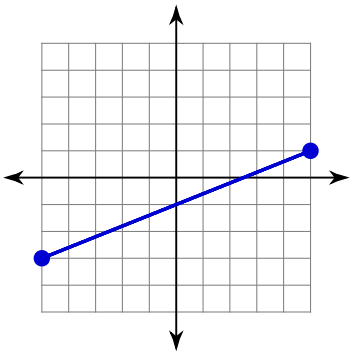
35) $-x = -2 - 2y$

36) $x = y$

37) $0 = -y - 1 + 4x$

38) $15 + 5y = -x$

39)



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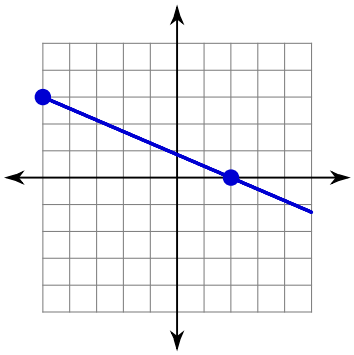

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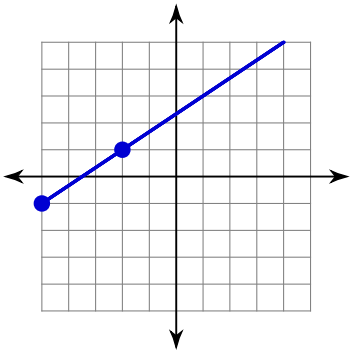

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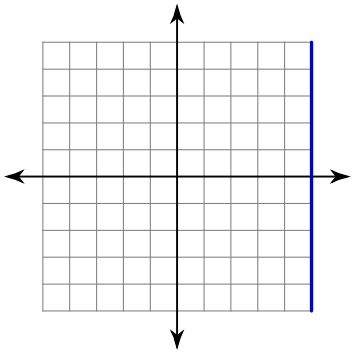

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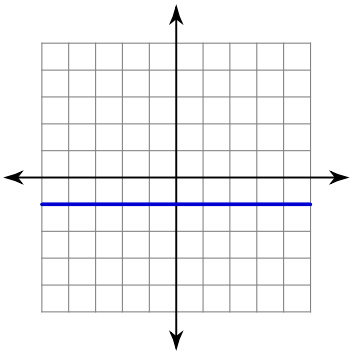
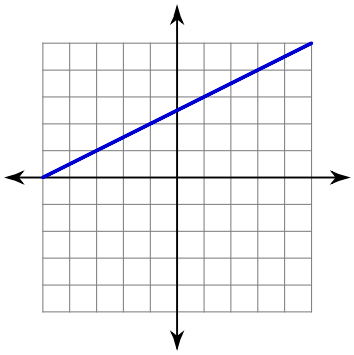


44)



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

45) $(-9, -5), (-5, 3)$

46) $(-20, -18), (-13, 20)$

47) $(8, 11), (18, 3)$

48) $(7, -13), (13, -3)$

49) $(-5, 7), (4, -20)$

50) $(20, -1), (-18, -17)$

51) $(-5, -10), (0, 17)$

52) $(-8, 20), (-9, 0)$

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

53) $0 = -2y + x - 2$

54) $y - 1 = -3x$

55) $5x + 2y - 4 = 0$

56) $-2x + 10 = 5y$

57) $1 = y + \frac{4}{3}x$

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

58) $\frac{2}{5}y + \frac{4}{5}x = 2$

59) $3y + 4x + 15 = 0$

60) $0 = 1 - \frac{1}{3}y$

61) $9x = -4y + 20$

62) $10y - 30 = 8x$

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

63) Slope $= -\frac{5}{2}$, y-intercept $= 1$

64) Slope $= 3$, y-intercept $= -2$

65) Slope $= \frac{5}{2}$, y-intercept $= 3$

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

66) through: $(0, -1)$ and $(1, -3)$

67) through: $(-4, 5)$ and $(0, -2)$

68) through: $(0, -1)$ and $(4, 1)$

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

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

70) through: $(2, -4)$, slope $= -3$

71) through: $(-2, 4)$, slope $= -2$

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

72) through: $(-4, 0)$, parallel to $y = \frac{3}{4}x + 1$

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

74) through: $(4, -4)$, parallel to $y = -\frac{7}{4}x + 1$

# Answers to Practice for Q1 Exam 1 - Part 2 of 2 (ID: 1)

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

37) 4

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

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

43) 0

45) 2

47) $-\frac{4}{5}$

49) –3

51) $\frac{27}{5}$

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

55) $-\frac{5}{2}$

57) $-\frac{4}{3}$

59) $\frac{3}{4}$

61) $\frac{4}{9}$

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

65) $y = \frac{5}{2}x + 3$

67) $y = -\frac{7}{4}x - 2$

69) $y - 1 = -\frac{1}{5}(x + 5)$

71) $y - 4 = -2(x + 2)$

73) $y - 2 = 0$