

Summer Assignment

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Solve each equation.

1) $-(b - 3) - 4b = -(-1 + 6b)$

2) $5n + 6(2n + 3) = 8(n - 4) - n$

3) $4b + 5(2b - 4) = 2(b + 8)$

4) $-5(n - 2) - 7n = 5(3 - 2n) + 3n$

5) $-(n + 5) = -8 - 3(n + 5)$

Simplify.

6) $\sqrt{48}$

7) $\sqrt{32}$

8) $\sqrt{200}$

9) $\sqrt{125}$

10) $\sqrt{576}$

11) $\sqrt{392}$

12) $\sqrt{600}$

13) $\sqrt{1000}$

14) $\sqrt{128}$

15) $\sqrt{640}$

16) $-2\sqrt{45} - 3\sqrt{18} - 2\sqrt{45}$

17) $-2\sqrt{27} - 3\sqrt{27} + 3\sqrt{12}$

18) $-3\sqrt{54} - 2\sqrt{12} - 2\sqrt{3}$

19) $-3\sqrt{2} - 2\sqrt{2} - 3\sqrt{8}$

20) $-2\sqrt{24} - 3\sqrt{6} - 2\sqrt{24}$

21) $-\sqrt{2}(-5\sqrt{10} + \sqrt{2})$

22) $\sqrt{3}(4\sqrt{3} + \sqrt{5})$

23) $\sqrt{15}(\sqrt{3} + \sqrt{2})$

24) $\sqrt{2}(2\sqrt{2} - \sqrt{5})$

25) $\sqrt{5}(4\sqrt{10} + 5\sqrt{3})$

26) $\frac{4\sqrt{10}}{3\sqrt{32}}$

27) $\frac{4\sqrt{20}}{3\sqrt{5}}$

28) $\frac{4\sqrt{8}}{\sqrt{18}}$

29) $\frac{2\sqrt{15}}{\sqrt{20}}$

30) $\frac{2\sqrt{6}}{\sqrt{9}}$

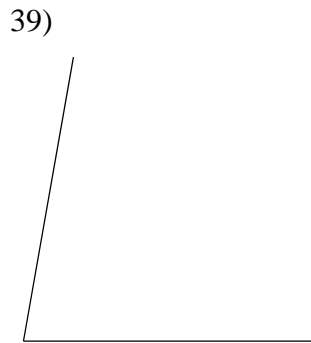
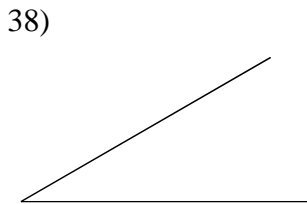
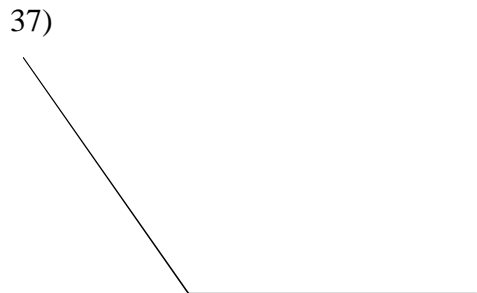
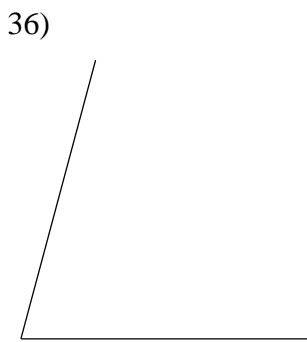
Use a ruler to measure the length of each line segment. Measure each segment in inches. Round your measurements to the nearest $\frac{1}{16}$ of an inch.



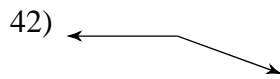
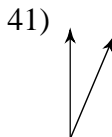
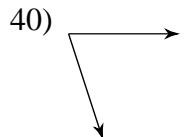
Use a ruler to measure the length of each line segment. Measure each segment in centimeters. Round your measurements to the nearest millimeter.



Find the measure of each angle to the nearest degree.



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



44)



45) 180°

46) 100°

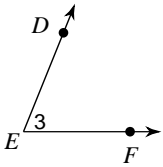
47) 63°

48) 171°

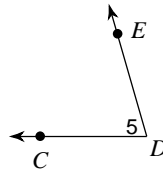
49) 90°

Name each angle in four ways.

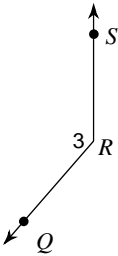
50)



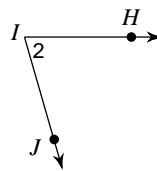
51)



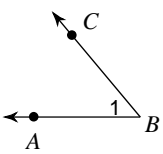
52)



53)

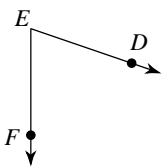


54)

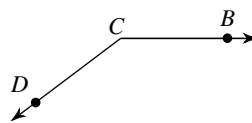


Name the vertex and sides of each angle.

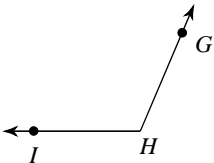
55)



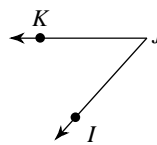
56)



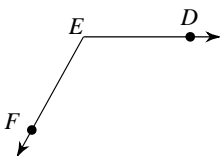
57)



58)

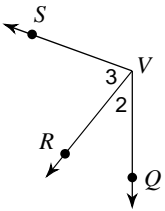


59)

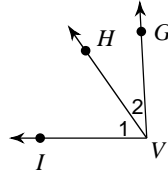


Name all the angles that have V as a vertex.

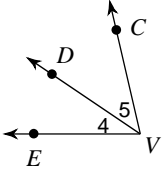
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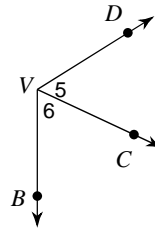
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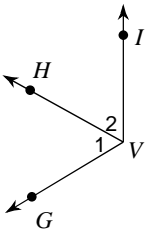
62)



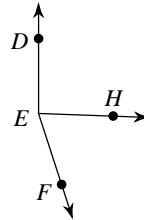
63)



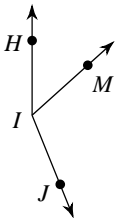
64)



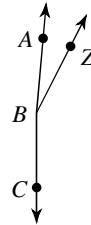
65) Find $m\angle HEF$ if $m\angle DEF = 162^\circ$ and $m\angle DEH = 92^\circ$.



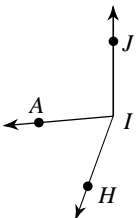
66) Find $m\angle HIM$ if $m\angle MIJ = 110^\circ$ and $m\angle HIJ = 158^\circ$.



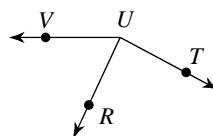
67) $m\angle ABC = 175^\circ$ and $m\angle ZBC = 153^\circ$. Find $m\angle ABZ$.



68) $m\angle HIA = 65^\circ$ and $m\angle HIJ = 160^\circ$. Find $m\angle AIJ$.



69) $m\angle TUR = 87^\circ$ and $m\angle TUV = 152^\circ$. Find $m\angle RUV$.

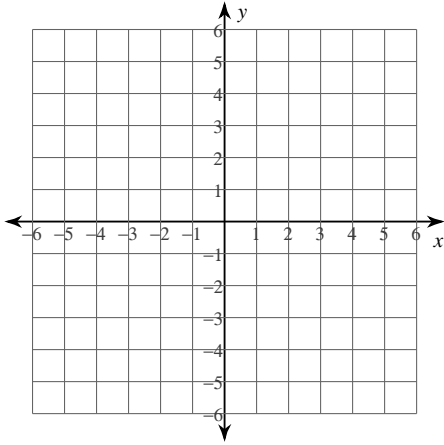


Summer Assignment part 2

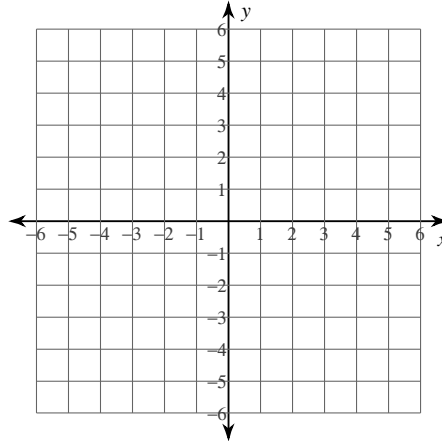
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Sketch the graph of each line.

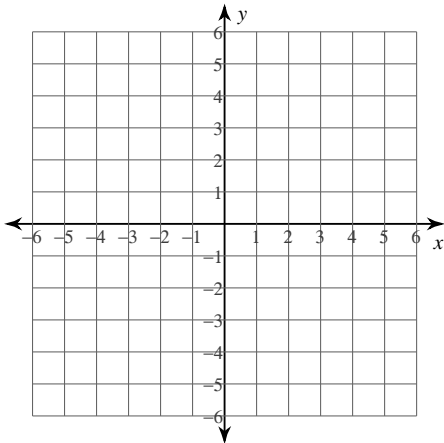
1) $y = -\frac{4}{5}x + 3$



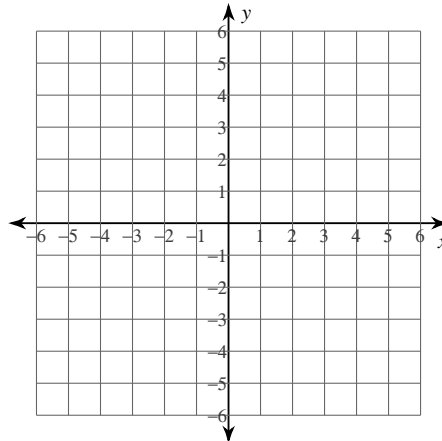
2) $y = 2x + 5$



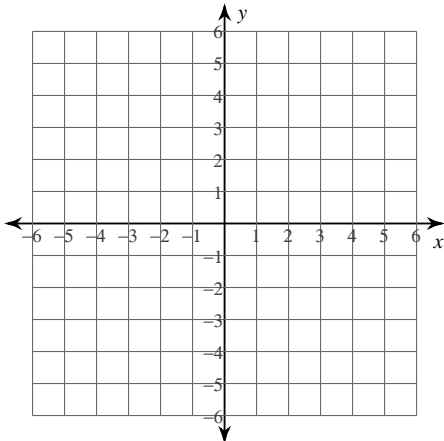
3) $y = -\frac{1}{4}x - 4$



4) $x = 4$

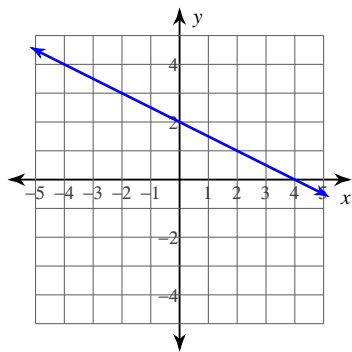


5) $y = -x - 1$

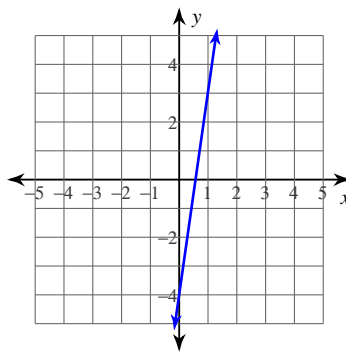


Write the slope-intercept form of the equation of each line.

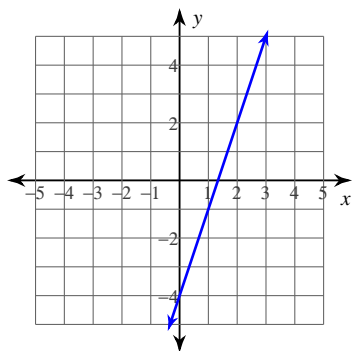
6)



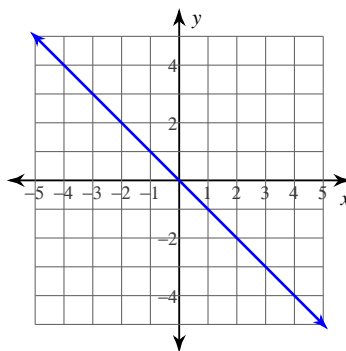
7)



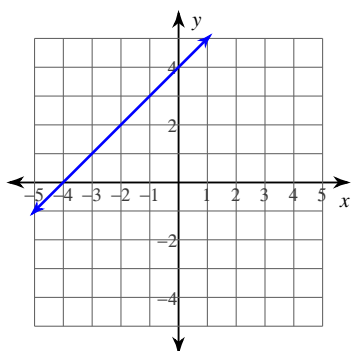
8)



9)



10)



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

11) through: $(-5, -5)$, slope = $\frac{2}{5}$

12) through: $(-5, 1)$, slope = $-\frac{6}{5}$

13) through: $(3, 1)$, slope = 2

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

15) through: $(1, -1)$, slope = 4