The American School Foundation of Guadalajara
Integrated Math II
Summer Assignment
June 2026

Dear soon-to-be 9th grade math students,

Below you will find the summer assignment. I recommend you complete the summer assignment just before you start the new year. This way the material is fresh in your mind and you will have brushed up these essential skills before starting 9th grade.

I recommend you print out the summer assignment (double-sided), and work on the problems directly on the worksheets. Do your best! Remember, you are responsible for your own learning, so be independent, don't use AI, and no calculators. This assignment will need to be submitted on the first day of class.

There will be a brief review of the summer assignment topics during the first week of classes, and then you will be formally evaluated on these topics. This assessment will count towards your first quarter grade.

After you finish your math section you should proceed to the Science Addendum (or click here) to practice the math skills that are necessary to be successful in Science.

I hope you all have a wonderful summer. Be safe, and have fun!

Sincerely,

HS Math Department

******Please take note that this is a 16 page document (including answers), however the last 4 pages are for the honor's math class only.******

Summer Assignment

Date_____ Period____

Evaluate each expression.

1) $15 \div (2 + 1)$

2) $12 \div (6 - 2)$

3) $6 + 4 \cdot 5$

4) $8 \div (6 - 4)$

5) $(1 + 5) \cdot 1^3$

6) $12 \div 6 + 18 \div 6$

7) $10 \div (6 - 1^3)$

8) $10 \div (6 - 4) - 4$

9) $3 \cdot 3 + 4(2 - 1)$

10) $(7 + 1) \div (1^2 + 3)$

11) $(2 \cdot 2) \div 2$

12) $4^2 \div (2 \cdot 2)$

13) $\frac{5}{3} - 1\frac{1}{3} \div -3\frac{1}{4}$

14) $\left(\frac{-1}{2} - 1\frac{1}{4}\right) \times \frac{-1}{2}$

15) $-3\frac{1}{4} - (2 - 1)$

16) $-1 + \frac{-1}{2} - \frac{5}{3}$

Solve each equation.

17) $2 - 6n - 7n = 15$

18) $7 + 8x + 6 = -19$

19) $8x + 8 + 8x = -24$

20) $7 - 6(x + 8) = -89$

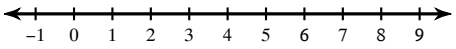
21) $x + 6(x - 7) = -91$

22) $111 = 7n - 6(2 + 8n)$

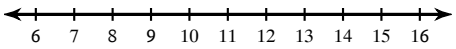
23) $7(8m + 1) - 3(m - 8) = -22$

Solve each inequality and graph its solution.

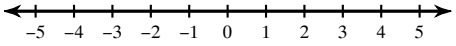
24) $3(x - 4) \geq 3$



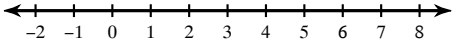
25) $72 < 8 + 8v$



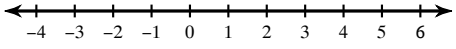
26) $-7v - 4v < 0$



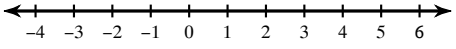
27) $-7b + 6b \geq -6$



28) $133 > -7(-6n + 5)$

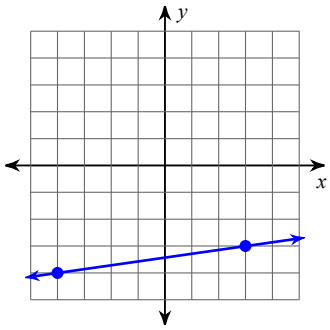


29) $5(1 + 6x) < 125$

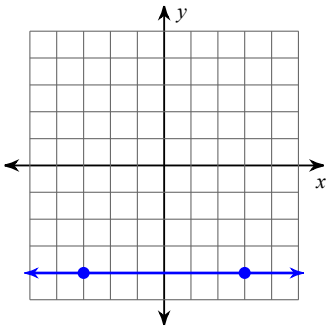


Find the slope of each line.

30)



31)



32) $y = -x - 3$

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

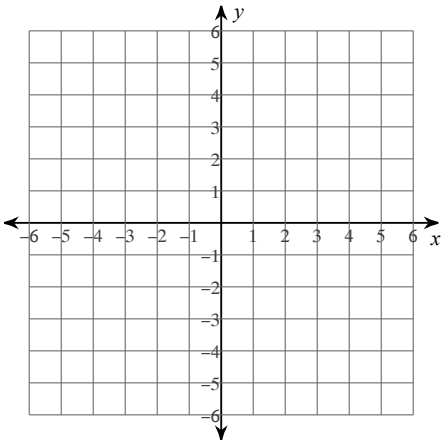
The equations for the lines below are in standard form. Find the slope of each line. Use your algebra skills to change the equations from standard form to slope-intercept form.

34) $2x + y = 4$

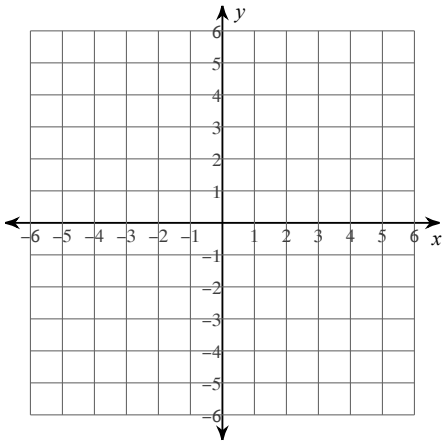
35) $x - 2y = 2$

Sketch the graph of each line. Remember, if the equation is in standard form, change it to slope-intercept form.

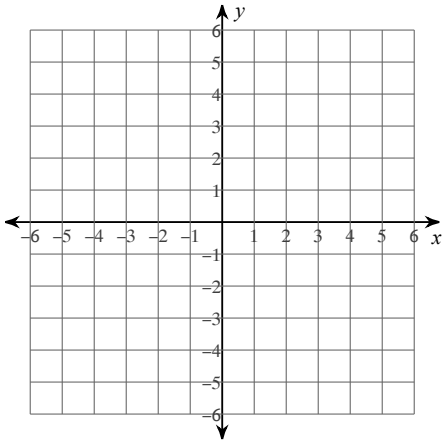
36) $y = -\frac{8}{5}x + 3$



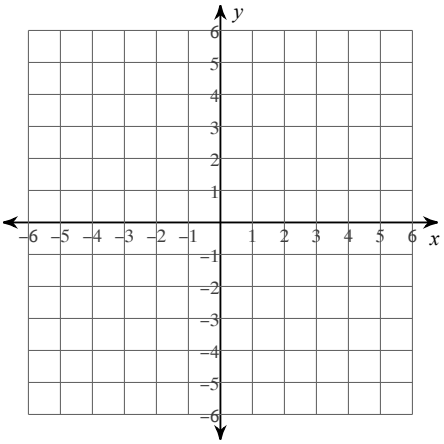
37) $y = -\frac{1}{3}x - 4$



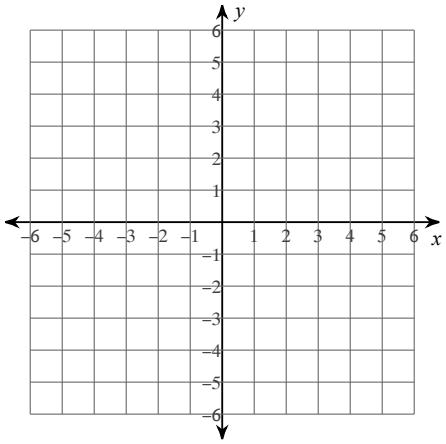
38) $y = \frac{2}{3}x + 1$



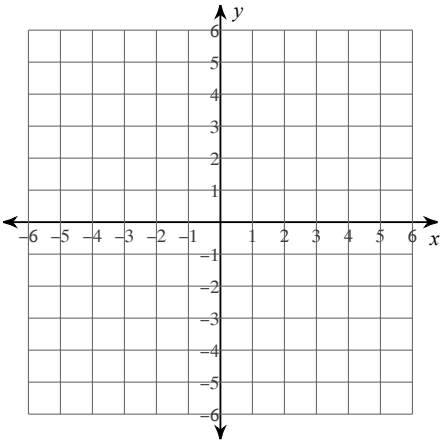
39) $y = 2x + 3$



40) $x + 2y = -4$

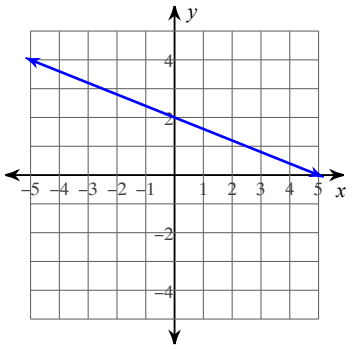


41) $5x - 3y = 3$

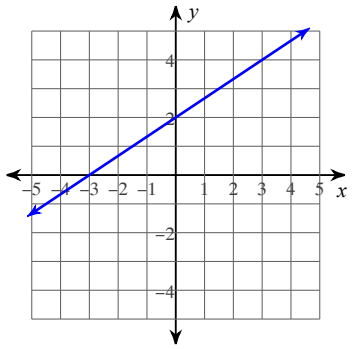


Write the slope-intercept form of the equation of each line.

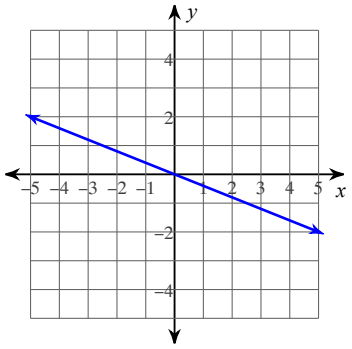
42)



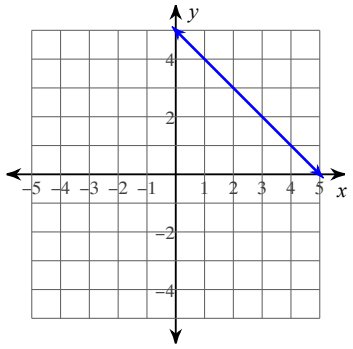
43)



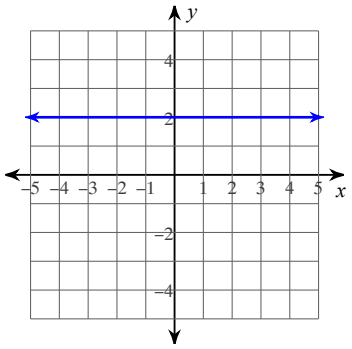
44)



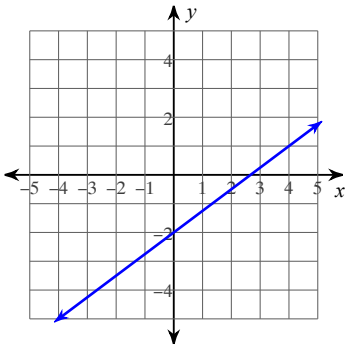
45)



46)



47)



Solve each proportion.

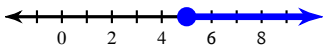
48) $\frac{10}{7} = \frac{3}{v}$

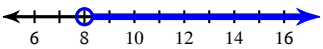
49) $\frac{2}{9} = \frac{p}{3}$

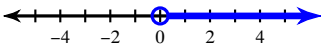
50) $\frac{2}{8} = \frac{8}{p}$

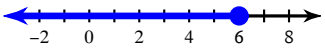
51) $\frac{8}{7} = \frac{3}{k}$

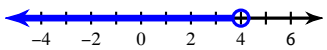
Answers to Summer Assignment (ID: 1)

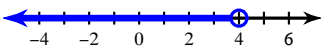
1) 5
2) 3
3) 26
4) 4
5) 6
6) 5
7) 2
8) 1
9) 13
10) 2
11) 2
12) 4
13) $\frac{27}{13}$
14) $\frac{7}{8}$
15) $-\frac{17}{4}$
16) $-\frac{19}{6}$
17) $\{-1\}$
18) $\{-4\}$
19) $\{-2\}$
20) $\{8\}$
21) $\{-7\}$
22) $\{-3\}$
23) $\{-1\}$
24) $x \geq 5$:


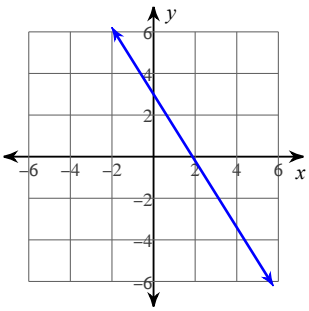
25) $v > 8$:


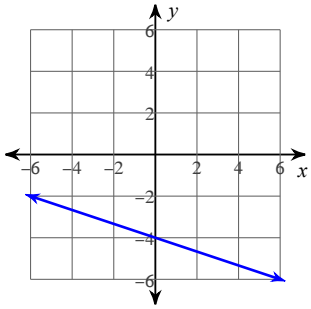
26) $v > 0$:


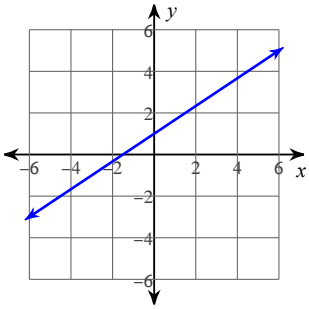
27) $b \leq 6$:


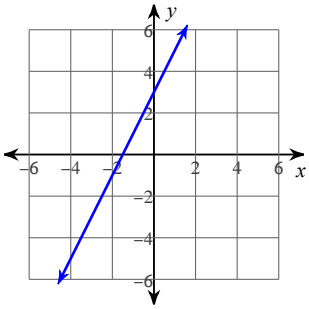
28) $n < 4$:


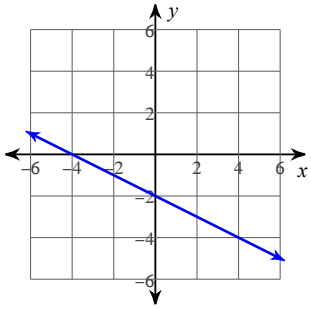
29) $x < 4$:


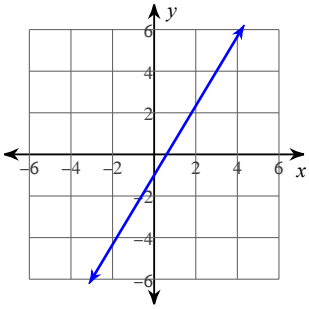
30) $\frac{1}{7}$
31) 0
32) −1
33) $-\frac{1}{5}$
34) −2
35) $\frac{1}{2}$
36)


37)


38)


39)


40)


41)


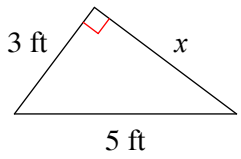
42) $y = -\frac{2}{5}x + 2$
43) $y = \frac{2}{3}x + 2$
44) $y = -\frac{2}{5}x$
45) $y = -x + 5$
46) $y = 2$
47) $y = \frac{3}{4}x - 2$
48) $\left\{\frac{21}{10}\right\}$
49) $\left\{\frac{2}{3}\right\}$
50) $\{32\}$
51) $\left\{\frac{21}{8}\right\}$

Summer Assignment

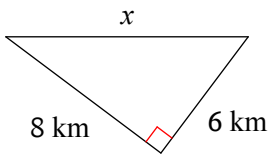
Date_____ Period____

Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.

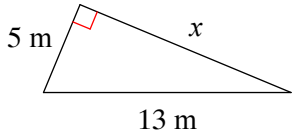
1)



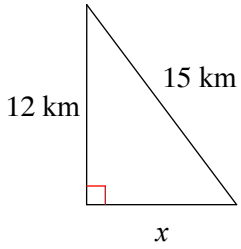
2)



3)

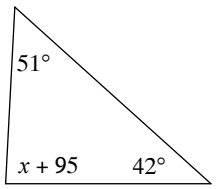


4)

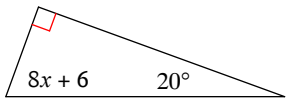


Solve for *x*.

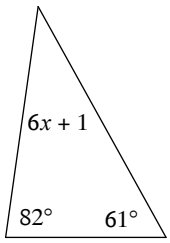
5)



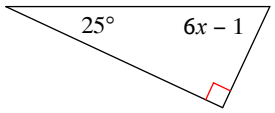
6)



7)

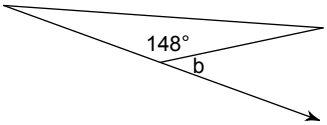


8)

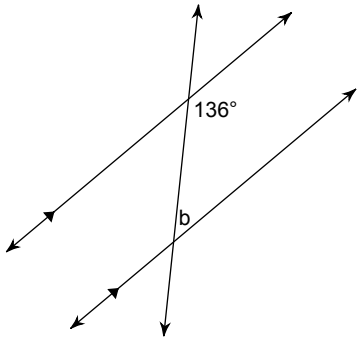


Find the measure of angle b.

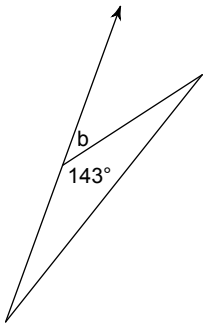
9)



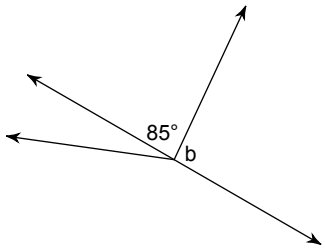
10)



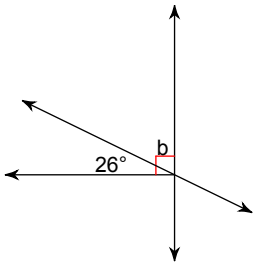
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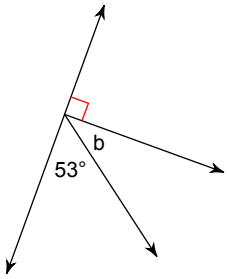
12)



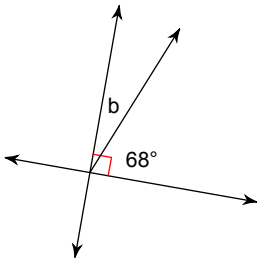
13)



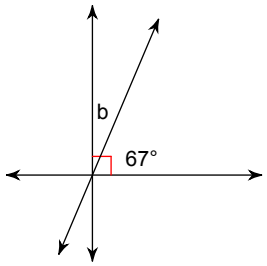
14)



15)



16)



Answers to Summer Assignment (ID: 1)

1) 4 ft
2) 10 km
3) 12 m
4) 9 km
5) −8
6) 8
7) 6
8) 11
9) 32°
10) 44°
11) 37°
12) 95°
13) 64°
14) 37°
15) 22°
16) 23°