

Pro-Vision Academy Charter School
High School Math Distance Learning Plan

High School Math
Distance Learning Plan
Week of April 27 – May 1, 2020

Geometry
(Suggested: 90 minutes of off-line activities)
Please contact Mr. Tabernilla with any questions at atabernilla@pvacademy.org

Monday

(Show your solutions)

Evaluate each expressions for $x = 16$, $y = -4$ and $z = -2$

- a) $8y \div x$ b) $x \cdot y$ c) xz d) $4z \div y$ e) $x + z$

Tuesday

(Show your solutions)

Simplify each expression (Order of Operations)

- a) $18 - 12 + 4^2$ b) $2(4) + 15 \div 5$ c) $-7 - (2^3 + 8)$

Wednesday

(Show your solutions)

The Formula of the Area of a Circle : $A = \pi r^2$ where; $\pi = 3.14$

Note : radius (r) = diameter (d) / 2

- a. If the diameter is 10 m : Find the Area of a Circle = A ?
b. If the diameter is 12.4ft : Find the Area of a Circle = A ?

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Thursday

(Show your solutions)

The Formula of Area of a Rectangle : $A = (L) (W)$

The Formula of Perimeter P for Rectangle : $P = 2 l + 2 w$

- a) The Area (A) of a Basketball Court 50 ft ². If the length (L) of the Basketball Court is 10 ft.
Find the width (W) of the Basketball Court ?
- b) The Perimeter (P) of Gymnasium is 100 m. If the length (L) of the Gymnasium is 20m,
Find the width (W) of the Gymnasium ?

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Algebra 2

(Suggested: 90 minutes of off-line activities)

Please contact Mr. Tabernilla with any questions at atabernilla@pvacademy.org

Monday

(Show your solutions) :

Solve the following Equations :

a) $3(x + 1) = 12$ b) $3w + 6 - pw = 24$ c) $4y - 10y - 9 = -3$

Tuesday

(Show your solutions) :

Solve the following Equations :

a) Error Analysis : Describe and correct the error made in solving $3x - 9 = 15$?

Solution : $3x - 9 = 15 \rightarrow 3x / 3 - 9 = 15 / 3 \rightarrow x - 9 = 5 \rightarrow x - 9 + 9 = 5 + 9$

$X = 14$ wrong answer

Wednesday

(Show your solutions) :

Guided Solution : $\sqrt[3]{x+3} = 3$ $(\sqrt[3]{x+3})^3 = (3)^3$ $x + 3 = 27$

$X + 3 = 27$ $x = 27 - 3$ $x = 24$

Simplify the following Rational Equations:

1) $\sqrt[3]{x} - 9 = -1$ 2) $\sqrt[3]{x-3} = 4$ 3) $\sqrt[3]{2x+7} = 3$

Thursday

(Show your solutions) :

The formula for Scalar Multiplication :

$$2 \begin{bmatrix} b_1 & b_2 \\ b_3 & b_4 \end{bmatrix} = \begin{bmatrix} 2b_1 & 2b_2 \\ 2b_3 & 2b_4 \end{bmatrix}$$

1) Perform the operation

2) Perform the operation

a) $-2 \begin{bmatrix} 2 & 2 \\ -1 & 6 \end{bmatrix}$

c) $10 \begin{bmatrix} 7 & 2 \\ -1 & 6 \end{bmatrix}$

b) $5 \begin{bmatrix} 7 & -4 \\ 5 & 9 \end{bmatrix}$

d) $-5 \begin{bmatrix} 12 & 5 \\ -1 & 16 \end{bmatrix}$

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Pre-Calculus

(Suggested: 90 minutes of off-line activities)

Please contact Mr. Tabernilla with any questions at atabernilla@pvacademy.org

Monday

(Show your solutions) :

1. What is the solution of the $3w + 8 = 9w - 16$?
a) 4 b) -5 c) 6 d) 7
2. What is the solution of the equation $4x - 7 = -15$?
a) -12 b) -2 c) 2 d) $11/2$

Tuesday

(Show your solutions) :

Evaluate the expressions when $x = 5$, $y = -4$ and $z = 2$

- a) $3x + y^3 + 2z^2$ b) $3xz + 11xy$ c) $3xyz + 2y^2$ d) $x^2 + 4y + 3z$

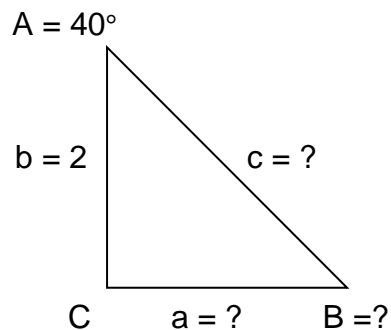
Wednesday

(Show your Solutions)

Find the sides a, c and Angle B ?

- 1) Find Angle B using $A + B = 90^\circ$
- 2) Find Side a using $\tan 40^\circ = \text{opp} / \text{adj} = a / 2$
- 3) Find Side c using $\cos 40^\circ = \text{adj} / \text{hyp} = 2 / c$

Note: $\tan 40^\circ = .839$ $\cos 40^\circ = .766$



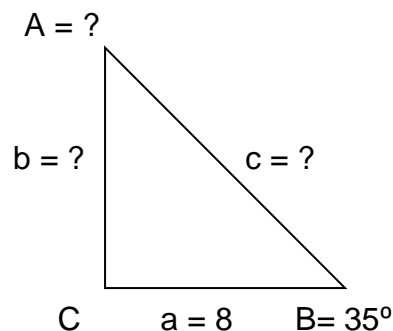
Thursday

(Show your Solutions)

Find the sides b, c and Angle A ?

- 2) Find Angle A using $A + B = 90^\circ$
- 2) Find Side b using $\tan 35^\circ = \text{opp} / \text{adj} = b / 8$
- 3) Find Side c using $\cos 35^\circ = \text{adj} / \text{hyp} = 8 / c$

Note: $\tan 35^\circ = .700$ $\cos 35^\circ = .819$



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High School Math Distance Learning Plan

High School Algebra I
Distance Learning Plan
Week of April 27 - May 1, 2020

Reading and Writing Activities
(Suggested: 90 minutes of off-line activities)

Monday

Math Review

Complete the attached assignment for “Monday Only”

#1-8

Tuesday

Math Review

Complete the attached assignment for “Tuesday Only”

#9-14

Wednesday

Math Review

Complete the attached assignment for “Wednesday”

#15-18

Thursday

Math Review

Complete attached assignment for “Thursday”

#19-22

Friday

SUBMIT ALL ASSIGNMENTS

Last day to submit!!!!

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High School Math Distance Learning Plan

Combining Like Terms
Worksheet

Name: _____
Date: _____ Section: _____

Simplify by combining like terms.

1. $2a + 15a + 3a$ _____ 2. $7x + 19x + 13x$ _____

3. $5y + 13y + 10y$ _____ 4. $35x + 55x + 4$ _____

5. $37y + 10 + 15y$ _____ 6. $26ab + 14ab$ _____

7. $12mn + 25mn$ _____ 8. $3abc + 22abc$ _____

9. $7a + 6c + 9a + 15c$ _____ 10. $14x + 7y + 19x + 15y$ _____

11. $6c + 9c + 5 + 10c$ _____ 12. $7r + 8 + 10r + 19r$ _____

13. $21x + 14 + 15x + 22$ _____ 14. $35n + 41 + 19n + 35$ _____

15. $4x^2y + 2x^2y + 5x^2y$ _____ 16. $8x^3 + 7x^3 + 16x^3$ _____

17. $4x^2 + 2x + 3x^2 + 4x$ _____ 18. $5m^3 + 2m^2 + 7m^3 + 8m$ _____

19. $7x^2 + 2xy + 7xy + 4y^2$ _____ 20. $a^2 + 7ab + 10ab + b^2$ _____

21. $9y^3 + 18y^2 + 16y^2$ _____ 22. $8x^2 + 14x + 10x^2$ _____

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High School Math Distance Learning Plan

College Level Math Distance Learning Plan
Week of April 27 – May 1, 2020

Reading and Writing Activities
(Suggested: 90 minutes of off-line activities)

Monday

Math Review

Complete the attached assignment for “Monday Only”

#1-8

Tuesday

Math Review

Complete the attached assignment for “Tuesday Only”

#9-14

Wednesday

Math Review

Complete the attached assignment for “Wednesday”

#15-20

Thursday

Math Review

Complete attached assignment for “Thursday”

#21-26

Friday

SUBMIT ALL LATE or INCOMPLETE ASSIGNMENTS

Last day to submit!!!!

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High School Math Distance Learning Plan

Name: _____

Period: _____

Date: _____

College Math Review Worksheet

1. Solve. $-3(x - 4) + 7 = 4x - 9$	2. Solve. $(10 + 3x)9 = 5x$
3. Solve. $0.5 + 0.2x = 1.5 - 0.3x$	4. Solve. $0.2x - 1.1 = 1.7$
5. Solve. $\frac{2}{5}x - \frac{1}{10} = \frac{1}{2}(4x - 12)$	6. Solve. $100x - 15 = 0$
7. Solve. $0 + 4x = 9x - 20$	8. Honey Boo Boo works at Scooters Jungle and gets paid \$8 per hour. She already has \$15 in her piggy bank. a.) How many hours of work will it take her to save a total of \$95? b.) If she wanted to buy a new frilly dress that cost \$175. How many hours would she have to work in order to save for the dress?

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9. Grazer sells cool Minecraft t-shirts through his You-Tube channel. He sells them for \$7 each. If he wants his sales to be \$875 this week, how many t-shirts does he have to sell?

10. Tom Cassell plays Call of Duty for 3 hours each day. His goal is to play Call of Duty for 100 hours in the month of January). Will he make his goal? (Hint: There are 31 days in January)

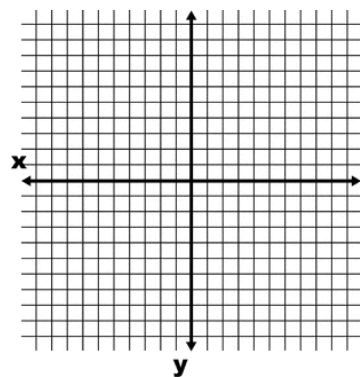
11. Use the distributive property to correctly solve $7(2 - x) = 28$.

12. Johnny claims that a horizontal line has no slope. Is he correct? Why or why not.

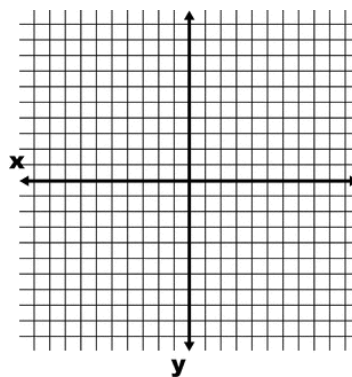
13. What is another way to refer to slope? What is the formula for the slope of a line?

14. What is the slope of a vertical line? Of a horizontal line?

15. Draw a graph of a line with:
(a) a slope of 2

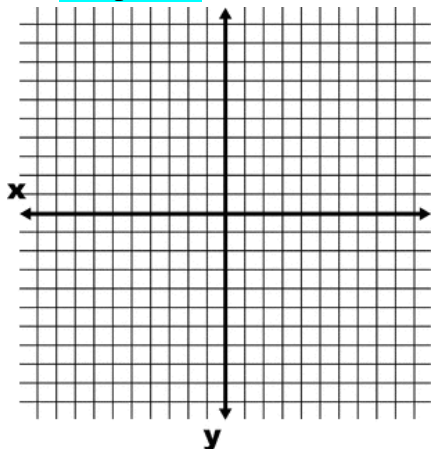


16. (b) a slope of $-1/2$.

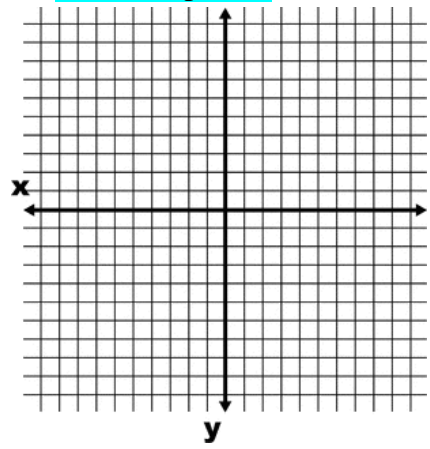


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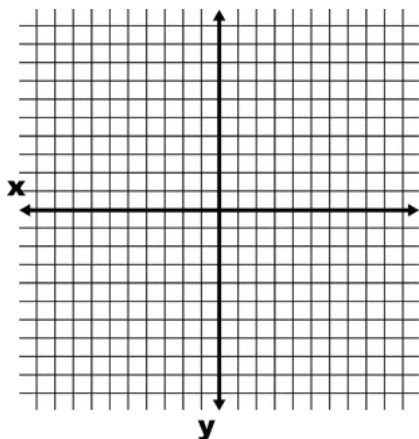
17. Plot the points $(1, 5)$ and $(-4, -2)$. Then find the slope of the line that goes through these two points.



18. Plot the points $(1, 5)$ and $(4, -2)$. Then find the slope of the line that goes through these two points.

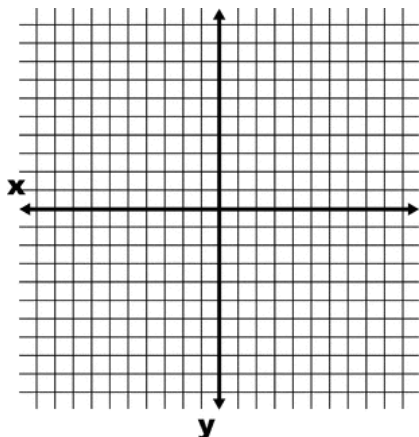


19. Write 5 ordered pairs that lie on a line that has a slope of 3.

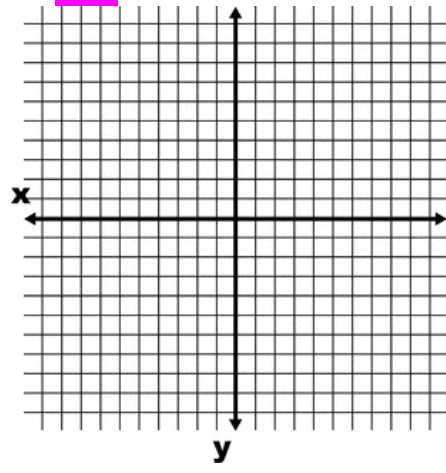


20. Calculate the slope of the line that goes through the ordered pairs $(0, -7)$, and $(-2, -27)$.

21. Draw a line that has a negative rate of change; then write the equation of that line.



22. Draw a line that has a rate of change of

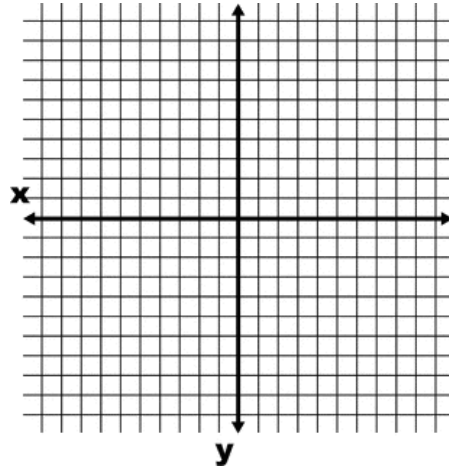


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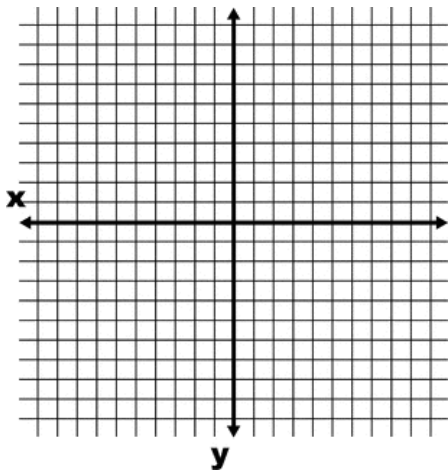
23. Create a table of values that describes the graph of the line $f(x) = 5x - 2$.

X	f(x)
-2	
-1	
0	
1	
2	

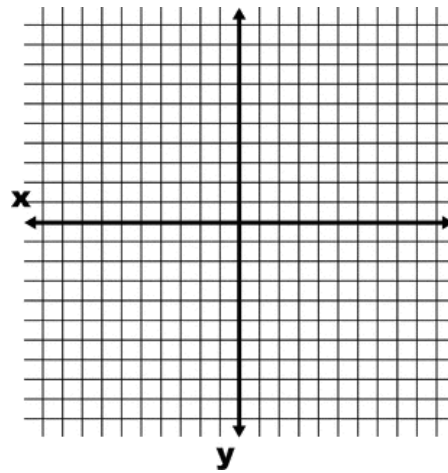
24. Graph $y = 3x + 5$



25. Graph $y = \frac{3}{4}x$



26. Graph $2y = -4x + 6$



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Business Marketing & Finance
Distance Learning Plan
Week of April 27 – May 1, 2020

(Suggested: 90 minutes of off-line activities)
Please contact Ms. Redd with any questions at kredd@pvacademy.org

Setting Up Shop

Independent Practice Assignments

- **Floor Plan Diagram Assignment #1** – Students will create a floor plan diagram of what their office would look like if they were beginning an online business, knowing that more than just a laptop may be required. Students should also list somewhere on the diagram the software they would like to have to use in their business.
- **Virtual Assistant Job Description Newsletter Assignment #2** – Students will research on the Internet to locate three different job descriptions from different companies' job openings for a 'virtual assistant' and create a newsletter summarizing their findings. They will create a one-page, two-column newsletter that is attractive, easy to read, with separate sections for the definition of a virtual assistant and the three job descriptions. Each section should be identified with separate paragraph headings or subtitles that add creativity to the document.

Power Point Only!!!!!!

Resources:

- [Learning E-Commerce: Business Analysis and Design](#), Nancy Stevenson, DDC Publishing
- [Start Your Own E-Business](#), *Entrepreneur Magazine*, Entrepreneur Press
- <http://www.sba.gov/content/starting-online-business>
<http://imedia.sba.gov/vd/media1/training/YoungEntrepreneurs/player.html>