

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

High School Math
Distance Learning Plan
Week of April 13 - 17, 2020

Geometry
(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 Two-Step Equations by using Distributive Property :

a) $2(4+x) = 20$ b) $-15 = 5(2x + 5)$ c) $10(y + 2) = 50$

Tuesday

(Show your solutions)

Solve the following Multiple Equations by Distributive Property :

a) $7x - (6-2x) = 12$ b) $5y - 3(y - 6) = 2$ c) $5w + 2(w + 1) = 23$

Wednesday

(Show your solutions)

The Formula of Perimeter P for Square: $P = 4s$

The Formula of Perimeter P for Rectangle : $P = 2b + 2h$

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

a) The Perimeter (P) of a Square = 16ft. ; If one side of a Square is $= 2x$ Find $x = ?$

b) The Perimeter (P) of Rectangle = 36ft. ; If the base $= (x+3)$ ft. & height $= (2x-6)$ ft. Find $x = ?$

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

c) The Perimeter (P) of Parallelogram = 38m ; If the length = $(x+4)$ m & width = $(2x)$ m Find $x = ?$

Thursday

(Show your solutions)

The Formula of a Circumference of Circle : if diameter is given $C = \pi d$

: if Radius is given $C = 2\pi r$

- a. The Circumference = 10 m ; If the diameter is $(2x)$ m. Find $x = ?$
- b. The Circumference = 30 m ; If the diameter is $(2x + 2)$ m. Find $x = ?$
- c. The Circumference = 20 ft ; If the radius is $(4x)$ ft. Find $x = ?$
- d. The Circumference = 40 ft ; If the radius is $(4x + 2)$ ft. Find $x = ?$

Friday

(Show your solutions)

The Formula of the Area of a Triangle : $A = \frac{1}{2} bh$

- a) The Length of the Sides of the Right Triangle are Base = 10 inches & Height = 24 inches.
What is the Area of the Triangle ?
- b) The Perimeter of a Triangle $P = 30$ m ; If the Length of the sides of the Triangle are
 $(2x + 4)$ m + $(3x - 6)$ m + $(5x + 2)$ m Find $x = ?$

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

Algebra 2

(Suggested: 90 minutes of off-line activities)

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

Monday

(Show your solutions) :

Simplify the following Multi - Equations with Variable on Both Sides:

a) $7 - 8w = 4w - 17$ b) $5y - 2 = 2(3y - 4)$ c) $3 - 4x = 5(x - 3)$

Tuesday

(Show your solutions) :

Simplify the following Multi - Equations by Multiplying the Reciprocal:

a) $\frac{3}{2}(3w + 5) = -24$ b) $\frac{3}{4}(y - 6) = 12$ c) $\frac{2}{5}(3x + 4) = 10$

Wednesday

Simplify the following Multi - Equations with Grouping Symbols:

a) $9y - 5 = \frac{1}{4}(16y + 60)$ b) $5x - 2 = 2(3x - 4)$ c) $3 - 4w = 5(w - 3)$

Thursday

(Show your solutions) :

Error Analysis : Describe and correct the error in solving the equations :

1) $5x - 3(x - 6) = 2$

$5x - 3x - 18 = 2$

$2x - 18 = 2$

$+18 = 18$

$2x + 0 = 20$

$\frac{2x}{2} = \frac{20}{2}$

$X = 10$ This is wrong Answer.

Correct the Error

2) $\frac{1}{2}(2x - 10) = 4$

$2x - 10 = 4$

$+10 = +10$

$2x = 14$

$\frac{2x}{2} = \frac{14}{2}$

$x = 7$ This is a wrong Answer.

Correct the Error

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

Pre-Calculus

(Suggested: 90 minutes of off-line activities)

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

Monday

(Show your solutions) :

Simplify the following Multi - Equations with Variable on Both Sides :

a) $8x + 5 = 6x + 2$ b) $8x + 2x = 15x - 10$ c) $4w + w + 1 = 7(w - 1)$

Tuesday

(Show your solutions) :

Simplify the following Multi - Equations by Multiplying the Reciprocal :

a) $\frac{1}{2} (4y + 6) = -24$ b) $\frac{1}{4} (8x - 12) = 12$ c) $\frac{1}{5} (10x + 20) = 40$

Wednesday

(Show your solutions)

Simplify the following Multi - Equations with Grouping Symbols :

a) $7(y + 7) = 5y + 59$ b) $3(2z + 5) = 2z + 13$ c) $9x = 6(x + 4)$

Thursday

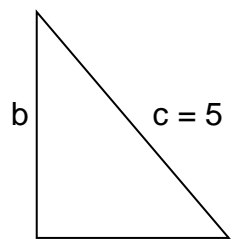
The lengths of the 3 sides are shown, find the values of Six (6) Trigonometric Functions:

A = θ
adj

$\sin \theta = \text{opp} / \text{hyp}$

$\cos \theta = \text{adj} / \text{hyp}$

$\tan \theta = \text{opp} / \text{adj}$



1) $\sin \theta = \underline{\hspace{1cm}} / \underline{\hspace{1cm}}$ $\cos \theta = \underline{\hspace{1cm}} / \underline{\hspace{1cm}}$ $\tan \theta = \underline{\hspace{1cm}} / \underline{\hspace{1cm}}$ b

$\csc \theta = \text{hyp} / \text{opp}$

$\sec \theta = \text{hyp} / \text{adj}$

$\cot \theta = \text{adj} / \text{opp}$

C a = opp = 3 B

2) $\csc \theta = \underline{\hspace{1cm}} / \underline{\hspace{1cm}}$ $\sec \theta = \underline{\hspace{1cm}} / \underline{\hspace{1cm}}$ $\cot \theta = \underline{\hspace{1cm}} / \underline{\hspace{1cm}}$

b = adj = 4

c = hyp = 5

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

Algebra 1

(Suggested: 90 minutes of off-line activities)

Please contact Ms. Redd with any questions at kredd@pvacademy.org

Polynomial Review

I. Determining Degree (MONDAY)

State the degree of each polynomial.

1. $3x^2y + 2xyz^3 - 5x^3 + y^4$

2. $abc + 6a^2b - 4ab^2 - 10$

3. 8

4. $8xyz^5 - 7x^2y^4z + xyz - 4x$

II. Adding/Subtracting Polynomials (TUESDAY)

5. $(5x^2y + 6xy - 3xy^2) + (2xy - 10x^2y + 2xy^2)$

6. $(7m^3 + 5m^2 - 8m + 3) - (10m^3 + 3m^2 - 8m - 3)$

7. Add $3x^2 + 5x + 2$ to $8x^2 - 6$.

8. What is the result when $p^2 - 4p + 1$ is subtracted from $3p^2 + p - 5$?

III. Properties of Powers (WEDNESDAY)

Simplify.

9. $\frac{(3x^4)^2}{x^3}$

10. $(5x^2y)(-3x^3y^{-4})$

11. $\left(\frac{3}{4}x^3\right)^2$

IV. Multiplying Polynomials (THURSDAY)

12. $x^2(3x + 5)$

13. $3xy^2(4xy^3 + xy + 2)$

14. $(x + 6)(2x - 3)$

15. $(3m + 1)(4m + 5)$

16. $(2x - 7)^2$

17. $(4a + 9)(4a - 9)$

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