

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

**High School Math**  
**Distance Learning Plan**  
**Week of May 11 - 15, 2020**

**Geometry**

**Monday - Thursday**

( Show your solutions )

Solve the following equations:

a)  $3x - 2 = 4$

b)  $-7x + 5 = -9$

c)  $9x + 2 = -7$

Solve the following equations:

a)  $x + 3.8 = 2.3$

b)  $y - 7 = 10$

c)  $w - 11 = -5$

Simplify the following equations:

a)  $3x + 5x = 32$

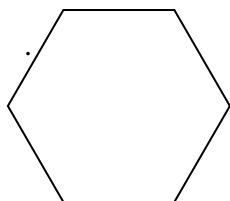
b)  $5y + 5 = 40$

c)  $2w + 5 = 11$

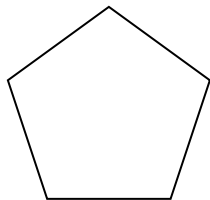
d)  $5m + 2m = 14$

Perimeter means the Total Distance around the Figure:

# Find the distances of all the Figures if the side of each figures is equal to 12.5 ft.



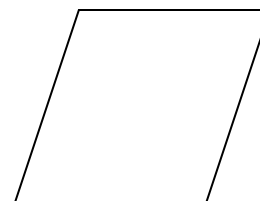
Hexagon = ?



Pentagon = ?



Square = ?



Parallelogram = ?

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**Algebra II**

**Monday - Thursday**

( Show your solutions )

Simplify the following equations:

a)  $8x + 2x = 32$       b)  $5y + 9 = 24$       c)  $w / 2 + 5 = 11$       d)  $2m + 7m = 54$

Solve the following Multi-Step Equations:

a)  $3(x + 1) = 12$       b)  $3w + 6 - 9w = 24$       c)  $5y + 2(y + 1) = 23$

Describe and correct the error in solving the equations:

a) $x + 3.8 = 2.3$	b) $y - 7 = 10$	c) $w - 11 = -5$
$x + 3.8 - 3.8 = 2.3 + 3.8$	$y - 7 + 7 = 10 - 7$	$w - 11 + 11 = -5 - 11$
$x = 6.1$ wrong answer	$y = 3$ wrong answer	$w = -16$ wrong answer

The formula for addition and subtraction of a Matrices:

$$A = \begin{bmatrix} a_1 & a_2 \\ a_3 & a_4 \end{bmatrix} \quad B = \begin{bmatrix} b_1 & b_2 \\ b_3 & b_4 \end{bmatrix} ; \quad A + B = \begin{bmatrix} a_1 & a_2 \\ a_3 & a_4 \end{bmatrix} + \begin{bmatrix} b_1 & b_2 \\ b_3 & b_4 \end{bmatrix} = \begin{bmatrix} a_1 + b_1 & a_2 + b_2 \\ a_3 + b_3 & a_4 + b_4 \end{bmatrix}$$

$$A = \begin{bmatrix} a_1 & a_2 \\ a_3 & a_4 \end{bmatrix} \quad B = \begin{bmatrix} b_1 & b_2 \\ b_3 & b_4 \end{bmatrix} ; \quad A - B = \begin{bmatrix} a_1 & a_2 \\ a_3 & a_4 \end{bmatrix} - \begin{bmatrix} b_1 & b_2 \\ b_3 & b_4 \end{bmatrix} = \begin{bmatrix} a_1 - b_1 & a_2 - b_2 \\ a_3 - b_3 & a_4 - b_4 \end{bmatrix}$$

1) Find each Matrix sum.

2) Find each Matrix difference.

a)  $A = \begin{bmatrix} 5 & 8 \\ -1 & 3 \end{bmatrix} + B = \begin{bmatrix} 8 & -9 \\ 7 & 10 \end{bmatrix}$

c)  $A = \begin{bmatrix} 9 & 12 \\ -0 & -6 \end{bmatrix} - B = \begin{bmatrix} -14 & 21 \\ 9 & 15 \end{bmatrix}$

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**Precalculus**

**Monday - Thursday**

( Show your solutions )

Simplify the following equations:

a)  $8x + 2x = 32$       b)  $5y + 9 = 24$       c)  $w / 2 + 5 = 11$       d)  $2m + 7m = 54$

Describe and correct the error in solving the equations:

a) $x + 3.8 = 2.3$	b) $y - 7 = 10$	c) $w - 11 = -5$
$x + 3.8 - 3.8 = 2.3 + 3.8$	$y - 7 + 7 = 10 - 7$	$w - 11 + 11 = -5 - 11$
$x = 6.1$ wrong answer	$y = 3$ wrong answer	$w = -16$ wrong answer

Describe and correct the error in solving the equations:

a) $1/2 ( 2w - 10 ) = 4$	b) $5z - 3 ( z - 6 ) = 2$
$2w - 10 = 2$	$5z - 3z - 18 = 2$
$2w = 12$	$2z = 20$
$w = 6$ wrong answer	$z = 20$ wrong answer

The formula for finding the Distance ( d ) =  $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

# Find the distance between the Points  $P_1$  and  $P_2$

- a)  $P_1 ( 3, -4 )$  and  $P_2 ( 5, 4 )$
- b)  $P_1 ( 0, 0 )$  and  $P_2 ( 2, 1 )$
- c)  $P_1 ( -1, 0 )$  and  $P_2 ( 2, 4 )$