Mrs. Bledsoe - Plans for Home Instruction for March 19-27, 2020

## Mrs. Bledsoe Algebra 2 7th \& 9th Periods

## Algebra 2: $7^{\text {th }} \& 9^{\text {th }}$ Periods

Notes for the Pythagorean Theorem are provided before the assignment in this packet.
Thursday, March 19, 2020: Do the "Pythagorean Theorem - Home Assignment - Day 1" Dated 3/19/2020.
Friday, March 20, 2020: Do the "Pythagorean Theorem - Home Assignment - Day 2" Dated 3/20/2020.
For the week of March 23-25, 2020, Triangle Trig Review: SohCahToa Notes have been provided (1 page).
Monday, March 23, 2020: Do Triangle Trig Review: SohCahToa, page 2 which is dated 3/23/2020
Tuesday, March 24, 2020: Do Triangle Trig Review: SohCahToa, page 3 \& page 4 which are dated 3/24/2020
Wednesday, March 25, 2020: Do Triangle Trig Review: SohCahToa, page 5 which is dated 3/25/2020
Thursday, March 26, 2020: SohCahToa Home Assignment, Day 6 which is dated 3/26/2020.
Friday, March 27, 2020: SohCahToa Home Assignment, Day 7 which is dated 3/27/2020.

Please do the best you can on these assignments. I hope you are not overwhelmed and that you do not get sick. Any messages via Livegrades or email are welcomed and encouraged. My school email is mbledsoe@k12.wv.us. I know this transition is a bit difficult and you may need help so I will be watching for questions and trying to provide assistance as much as possible.

Remember to take some breaks and relax after you have a plan on how to keep up with the work assigned and know how much break time you have. Don't procrastinate. Be responsible. Be safe.

Sincerely,
Mrs. Melissa Bledsoe

Examples for Home Assignment \#1:
Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.

1)

$$
\begin{aligned}
& x<\text { hypotenuse (Add) } \\
& \begin{aligned}
(10.3)^{2}+(4.2)^{2} & =1 \mathrm{c}^{\prime \prime} \\
& =106.09+17.6) \\
& =123.73
\end{aligned}
\end{aligned}
$$

3) 
4) 



$$
\begin{aligned}
& 11.3^{2} \Rightarrow 127.69 \\
& +12^{2}=+\frac{144}{271.69} \\
& x \approx \sqrt{271.69} \\
& x \approx 16.5 \mathrm{ft}
\end{aligned}
$$

Examples for Home Assignment \#2:
Find the missing side of each triangle. Leave your answers in simplest radical form.
6)

8)


$$
\begin{aligned}
& 11^{2}=121 \\
& -8^{2}=\frac{-64}{57} \\
& x=\sqrt{57} \mathrm{in}
\end{aligned}
$$

10) 


(10)

Algebra 2 Mrs. Bledsoe - 7th \& 9th Periods
Name
Pythagorean Theorem - Home Assignment - Day 1 Date: 3/19/2020 (Thursday)
Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.
1)

3)

$x$
5)

7)

2)

4)

6)

8)


Algebra 2 Mrs. Bledsoe - 7th \& 9th Periods
Pythagorean Theorem - Home Assignment (Day 2)
Date 3/20/2020 (Friday)

Find the missing side of each triangle. Leave your answers in simplest radical form.
1)

3)

5)

7)

6)

8)


Algebra Mrs.Bledsoe Name

## $77^{\text {th }}+9^{\text {th }}$ periods <br> Home Instruction

Part " "Triangle Trig Review:"
SohCahioa" $3 / 23-25 / 2020$
Pat Model Problems (pg 1) (Monday Wednesday)

$$
\sin (B)=\frac{\text { opposite }}{\text { hypotenuse }} \quad \cos (B)=\frac{\text { adjacent }}{\text { hypotenuse }} \quad \tan (B)=\frac{\text { opposite }}{\text { adjacent }}
$$



Model Problem 1) Identify The side adjacent, opposite to angle $\mathbf{x}$ and the hypotenuse

Adjacent to x: A
Opposite X: B
Hypotenuse: C


Model Problem 2) What is $\sin (k), \cos (k)$ and $\tan (k)$ ?
Use SOHCAHTOA

$$
\sin (k)=\frac{\text { opposite }}{\text { hypotenuse }}=\frac{4}{5}=.8
$$

$\cos (k)=\frac{\text { adjacent }}{\text { hypotenuse }}=\frac{3}{5}=.6$
$\tan (k)=\frac{\text { opposite }}{\text { adjacent }}=\frac{4}{3}=1.33$


Algebra 2 Home Instruction Name $77^{+1}+9^{\text {th }}$ periods. Mrs. Bledsoe $3 / 23 / 2020$ Monday Triangle Trig Review: SonCah Toa, pg 2
II. Identifying Opposite, Adjacent and Hypotenuse

Identify

1) the hypotenuse
2) the side opposite of $\angle Z$ : $\qquad$
3) the side adjacent to $\angle Z$ : $\qquad$

Identify
4) the hypotenuse
5) the side opposite of $\angle H$ : $\qquad$
6) the side adjacent to $\angle H$ : $\qquad$ -

Identify
7) the hypotenuse
8) the side opposite of $\angle Y$ : $\qquad$
9) the side adjacent to $\angle Y$ : $\qquad$


## Algebra 2 Home Instruction Name

7 th $+9^{\text {th }}$ periods Mrs, Bledsoe 3/24/2020
Part III. Writing Sine, Cosine, Tangent Ratios
tuesday

1) Which ratio represents $\cos A$ in the accompanying diagram of $\triangle A B C$ ?
(1) $\frac{5}{13}$
(3) $\frac{12}{5}$
(2) $\frac{12}{13}$
(4) $\frac{13}{5}$

2) Which ratio represents $\sin P$ in the accompanying triangle?
(1) $\frac{6}{10}$
(3) $\frac{6}{8}$
(2) $\frac{8}{10}$
(4) $\frac{10}{6}$

3) In the accompanying diagram of right triangle $A B C, A B=8, B C=15, A C=17$, and $\mathrm{m} \angle A B C=90$.

What is $\tan \angle C$ ?
(1) $\frac{8}{15}$
(3) $\frac{8}{17}$
(2) $\frac{17}{15}$
(4) $\frac{15}{17}$

4) What is $\sin (x)$ ?


6) What is $\sin (a), \cos (a)$ and $\tan (a)$ ?

7) In triangle $X Y Z, \angle y=90^{\circ} \mathrm{XY}=7, \mathrm{YZ}=$ 24 , and $\mathrm{XZ}=25$, which ratio represents cosine of $\angle x$ ?
(1) $\frac{7}{24}$
(3) $\frac{7}{25}$
(2) $\frac{24}{25}$
(4) $\frac{24}{7}$
8) In triangle $M C T$, the measure of $\angle T=90^{\circ}, M C=85 \mathrm{~cm}, C T=84 \mathrm{~cm}$, and $T M=13$ cm . Which ratio represents the sine of $\angle C$ ?
(1) $\frac{13}{85}$
(3) $\frac{13}{84}$
(2) $\frac{84}{85}$
(4) $\frac{84}{13}$

Algebra 2 Home Instruction Name Triangle TrigReview:SohCahtoa (p gi) Wednesday

## Error Analysis

A teacher asks the class if they can express the $\sin (\mathrm{A})$ in Triangle 1 and the $\sin (\mathrm{b})$ in triangle 2.

Jose says $\sin (A)=\frac{4}{5}$ and $\sin (\mathrm{b})$ does not exist.
Jenny says $\sin (A)=\frac{4}{5}$ and $\sin (B)=\frac{2}{4.6}$
Who is correct? (explain your reasoning)


Algebra 2 Mrs. Bledsoe - 7th \& 9th Periods

## SohCahToa - Home Assignment - Day 6

$\qquad$
Date 3/26/2020 (Thursday)
Find the value of each trigonometric ratio.

1) $\sin Z$

2) $\sin Z$

3) $\sin A$

4) $\sin X$

5) $\sin Z$

6) $\sin Z$

7) $\sin A$


Algebra 2 Mrs. Bledsoe - 7th \& 9th Periods
SohCahToa - Home Assignment - Day 7

Name $\qquad$
Date: 3/27/2020 (Friday)

Find the value of each trigonometric ratio. Write your answers as reduced fractions.

1) $\cos C$

2) $\cos Z$

3) $\cos C$

4) $\cos Z$

5) $\cos A$

6) $\cos X$

7) $\cos X$

