MFM2P - Course Review
Unit 1: Similar Triangles

1. Two triangles are similar if their angles are $\qquad$ the same and their corresponding sides are proportional
$\qquad$
2. Triangle FGH is similar to triangle WXY

3. Triangle DOG is similar to triangle CAT. Find the lengths of the missing sides.


$$
\frac{d}{c}=\frac{0}{a}=\frac{g}{t}
$$

$$
\frac{4.9}{c}=\frac{6.3}{9.7}=\frac{9}{7.6}
$$

side $c$
$\frac{4.9}{c}=\frac{6.3}{97}-421$
$c=9.7$

$$
\begin{aligned}
& \frac{1}{\alpha}=\frac{17}{6.3} \times 4.9 \\
&=7.5 \mathrm{~m}
\end{aligned}
$$

$$
\begin{gathered}
\frac{\text { Side }}{7.6 \times \frac{6.3}{9.7}=\frac{9}{2.6} \times 7.6} \\
9=4.9 \mathrm{~m}
\end{gathered}
$$

Unit 2: Trigonometry

1. The sum of the angles in a triangle is $140^{\circ}$.
2. The Pythagorean Theorem is $a^{2}+b^{2}=c^{2}$ where $c$ is the length of the hypotenuse of a right triangle.
3. $\sin ($ angle $)=\frac{\text { Opposite__ }}{\text { hypotenuse }}, \cos ($ angle $)=\frac{\text { adjacent }}{\text { hyp potions }}, \tan ($ angle $)=\frac{\text { Opposite }}{\text { adjacent }}$
$\qquad$
$\qquad$
$\qquad$
4. A clever way to remember the information from \#3 is Sob cato
5. When we have an angle, we use the $\sin , \cos$ and $\tan$ buttons.
6. When we are looking for an angle, we use the $\underline{\sin ^{-1}}, \cos ^{-1}$ and $\tan ^{-1}$ buttons.
7. Solve for the indicated side or angle.

