Geometry: Period	
Ms. Pierre	
Date:	

## **CUMULATIVE UNIT 3 REVIEW**

Use the following to review for you test. Work the Practice Problems on a separate sheet of paper.

Key Standards	Study Tips	Practice Questions
Trigonometric Ratios	<ul> <li>A ratio of the lengths of two sides of a right triangle is called a trigonometric ratio.</li> </ul>	1. Find the indicated trigonometric ratio as a fraction and as a decimal rounded to th nearest ten-thousandth <b>A</b> $\sin M$ <b>B</b> $\cos Z$ <b>B</b> $\cos Z$
	<ul> <li>Use the right triangle below to show trigonometric ratios</li> </ul>	C $\tan L$ E $\cos L$ D $\sin X$ E $\tan Z$ C $\tan L$ D $\sin X$ D $\sin X$ C $\tan Z$
	r R S T	2. Find each sine or cosine. Round to four decimal places, if necessary.
	$\sin R = \frac{\text{leg opposite } \angle R}{\text{hypotenuse}} = \frac{r}{t}$	$\begin{array}{c} A \\ 11 \\ 29 \\ C \end{array} \\ B \\ F \\ 20 \\ E \end{array} \\ C \\ B \\ C \\ B \\ C \\ B \\ C \\ C \\ C \\ C$
	$\cos R = \frac{\log \operatorname{adjacent} \operatorname{to} \angle R}{\operatorname{hypotenuse}} = \frac{s}{t}$	
	$ an R = rac{\log \operatorname{opposite to} \angle R}{\log \operatorname{adjacent to} \angle R} = rac{r}{s}$	<b>D</b> $\sin D$ <b>E</b> $\sin F$ <b>F</b> $\cos G$
Calculating Trigonometric Ratios	To calculate     trigonometric ratios,	3. Use your calculator to find each trigonometric ratio. Round to the nearest hundredth.
	make sure you calculator is in <u>degree</u> <u>mode</u>	▲ tan 51° ■ sin 80° ⊂ cos 77°
	For Example:	<b>D</b> $\tan 14^\circ$ <b>E</b> $\sin 55^\circ$ <b>F</b> $\cos 48^\circ$
	cos(76) .2419218956	4. Use your calculator to find each angle measure to the nearest degree.
	<b>B</b> $\sin^{-1}(0.45)$	<b>A</b> $\tan^{-1}(2.1)$ <b>B</b> $\cos^{-1}\left(\frac{1}{3}\right)$ <b>C</b> $\cos^{-1}\left(\frac{5}{6}\right)$
	sin <sup>-1(.45)</sup> 26.74368395	<b>D</b> $\sin^{-1}(0.5)$ <b>E</b> $\sin^{-1}(0.61)$ <b>F</b> $\tan^{-1}(0.09)$
Writing Equivalent Statements (Complementary)	<ul> <li>The Sine of an acute angle is EQUAL to the Cosine of the complement of that angle.</li> <li>Complement is the sum of 90°</li> </ul>	<ul> <li>5.</li> <li>Write the complementary angle.</li> <li>A oven that sin 15° ≈ 0.259, write the cosine of a complementary angle.</li> <li>Given that cos 62° ≈ 0.469, write the sine of a complementary angle.</li> </ul>

