| Vocabulary |  |
| :--- | :--- |
| geometric <br> mean | the positive square root of the <br> product of two numbers |
| trigon- <br> ometric <br> ratio | a ratio of two sides of a right <br> triangle |
| angle of <br> elevation | the angle formed by a <br> horizontal line and a line of <br> sight to a point above the line |
| angle of | the angle formed by a <br> depression <br> horizontal line and a line of <br> sight to a point below the line |

## Theorems \& Postulates

theorem the altitude to the hypotenuse of 8-1-1 a right triangle forms two triangles that are similar to each other and to the original triangle
the law for any triangle $A B C$ with side
of sines lengths $a, b$, and $c, \sin A / a=$ $\sin B / b=\sin C / c$
the law for any triangle $A B C$ with side of lengths $a, b$, and $c, a^{2}=b^{2}+c^{2}$ -
cosines $\quad 2 b c \cos A, b^{2}=a^{2}+c^{2}-2 a c$ $\cos B$, and $c^{2}=a^{2}+b^{2}-2 a b \cos C$


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| Trigonometric Ratios (SOHCAHTOA) |  |  |
| :---: | :---: | :---: |
| sine | the ratio of the length of the leg opposite the angle to the length of the hypotenuse | $\sin =$ <br> opposi- <br> te/hyp- <br> otenuse |
| cosine | the ratio of the length of the leg adjacent to the angle to to the length of the hypotenuse | cos = <br> adjace- <br> nt/hyp- <br> otenuse |
| tangent | the ratio of the length of the leg opposite the angle to the length of the leg adjacent to the angle | $\tan =$ <br> apposi- <br> te/adj- <br> acent |

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Page 1 of 1 .

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