Chapter 2 Study Guide

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| SKILL | DESCRIPTION | EXAMPLE | REFERENCE |
| Find a trig ratio | In  A  Adjacent to A hypotenuse  C B    Opposite to A | 8  A C  10 6  B | 2.1, 2.4, 2.6, 2.7  Trig ratio set up  https://www.youtube.com/watch?v=SqFQZWRALGc  general  https://www.youtube.com/watch?v=5tp74g4N8EY |
| Find the measure of an angle | To find the measure of an acute angle in a right triangle:  -use the given lengths to write a trig ratio  -use the ‘inverse/shift/2ndF’ function on a scientific calculator to find the angle  OR  -angle sum of triangle =180, if given 2 of the 3 angles | To find the measure of  <B in above:  <B = tan-1(8/6)  <B = 53o (nearest degree) | 2.1, 2.4, 2.6, 2.7  Find angle  https://www.youtube.com/watch?v=ypgcPKH4m4A  angle sum of a triangle  https://www.youtube.com/watch?v=YnDeYhBoCzs |
| Find the length of a side | To find the length of a side in a right triangle:  -use the measure of an angle and the length of a side to write an equation using a trig ratio  -solve the equation  OR  -Pythagorean theorem if given 2 sides | To find the length of EF  E  64  3cm  D F  = 6.8 cm (1 dec. pl.) | 2.2, 2.5, 2.6, 2.7  Find sides  https://www.youtube.com/watch?v=pkjuVZUdcvo  Pythagorean theorem  https://www.youtube.com/watch?v=uaj0XcLtN5c  https://www.youtube.com/watch?v=AA6RfgP-AHU  solve right triangles  https://www.youtube.com/watch?v=fjUN809FPRs |