UNIT 2 QUIZ DATE:_____ UNIT 2 TEST DATE:_____

NOTE: Notes will NOT be allowed for quiz/test. You will have a copy of the reference sheet attached

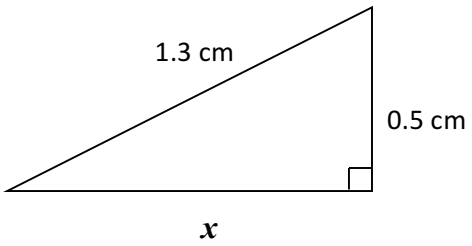
U2D1 MAP 4CI **Trigonometry Intro** Date:_____

Set your calculator to **DEGREE mode

1. Pythagorean Theorem. Draw a right triangle. Label the sides a, b and c (c must be the longest side). Side c is called the _____.

Now draw a square on each side of the triangle. State the relationship between the squares on the sides of the right triangle. _____

Ex. 1 Determine the length of the indicated side.



Ex. 2 Brad walks 1.7 km North and then 1.5 km East along the sides of a park. Dan starts at the same point and takes a shortcut along the diagonal. How much shorter is Dan's walk?

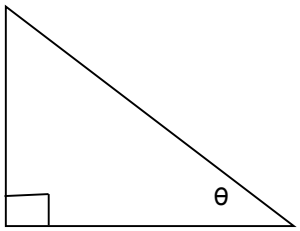
2. Solving Equations.

Ex. 1 Solve for x to the nearest tenth.

a) $\frac{12}{x} = \frac{20}{3}$

b) $\frac{6.7}{2.8} = \frac{x}{4.2}$

3. Primary Trig Ratios. Given a right triangle with angle θ (theta), label the sides "hypotenuse", side "opposite" to angle θ, and side "adjacent" to angle θ.



To remember the 3 primary trig. ratios of the sides of a right triangle relative to angle θ use _____

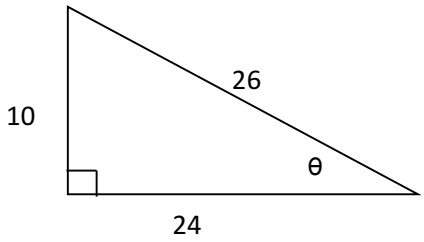
The 3 primary trig ratios are:

sine θ =

cosine θ =

tangent θ =

Ex. 1 Write the 3 primary trig ratios relative to θ.



Ex. 2 Evaluate to four decimal places.

a) $\sin 54 =$ b) $\cos 14 =$ c) $\tan 61 =$

U2D1 Practice: Pg 72 # 4 – 7, 9, 10 ab Check Answers: Pg. 540