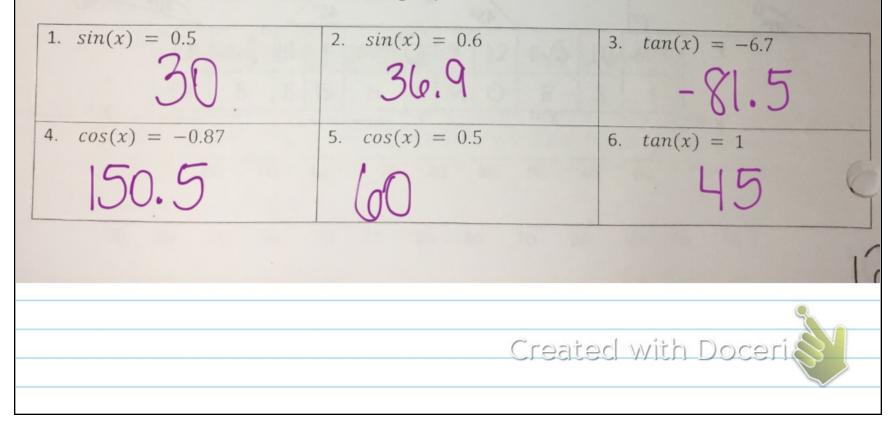


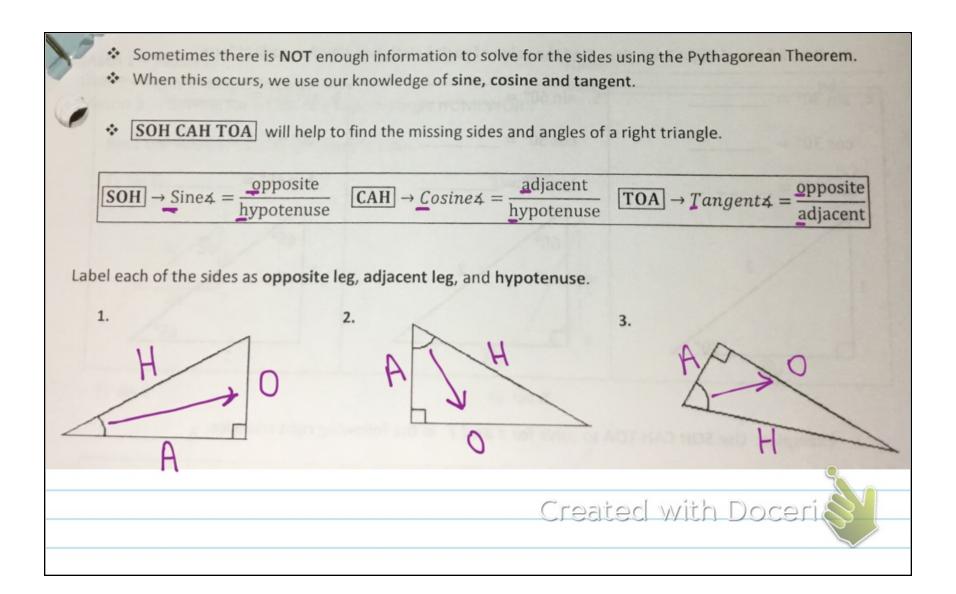
| Unit | th 2 – Honors t 7 – Right Triangle Trigonometry son 3 → Solving for a Side of a Right Tri | Name Date iangle | Pd |
|----------------------|---|--|--------------------------------------|
| Trig trian | onometry: branch of mathematics than ngles. Trigonometry is often divided in | at studies relationships involving the sides and to two subgroups: Right Triangles & Nonright | the angles of (Oblique) Triangles |
| A | Sine, Cosine and Tangent – three tr | igonometric functions that are related to angl | es and triangles |
| | • To <u>evaluate</u> an expression mean | ns to substitute a given value in for the variable | e and simplify. |
| | • We can also evaluate sine, cosin | ne and tangent using buttons on the calculator | r. |
| | • When evaluating sine, cosine an | nd tangent, we must remember that the value | we are substituting |
| | into the expression represents a | an angle measure. | |
| | Angles can be measured in tr | wo different units: | |
| | ✓ Degrees: 30°, 45°, 6 | 60°, 90°, 180°, 270°, 360° | |
| | ✓ Radians: $\frac{\pi}{6}, \frac{\pi}{4}, \frac{\pi}{3}, \frac{\pi}{2},$ | $\pi, \frac{3\pi}{2}, 2\pi$ | |
| | ✓ In this class, we will a | always measure angles in degrees. | |
| | ✓ Unfortunately the cal | Iculator is defaulted into Facility, so we must | Doceri make sure to cange |
| | the $MODE \rightarrow Mak$ | e sure DEGREE is highlighted!!!!!! | |

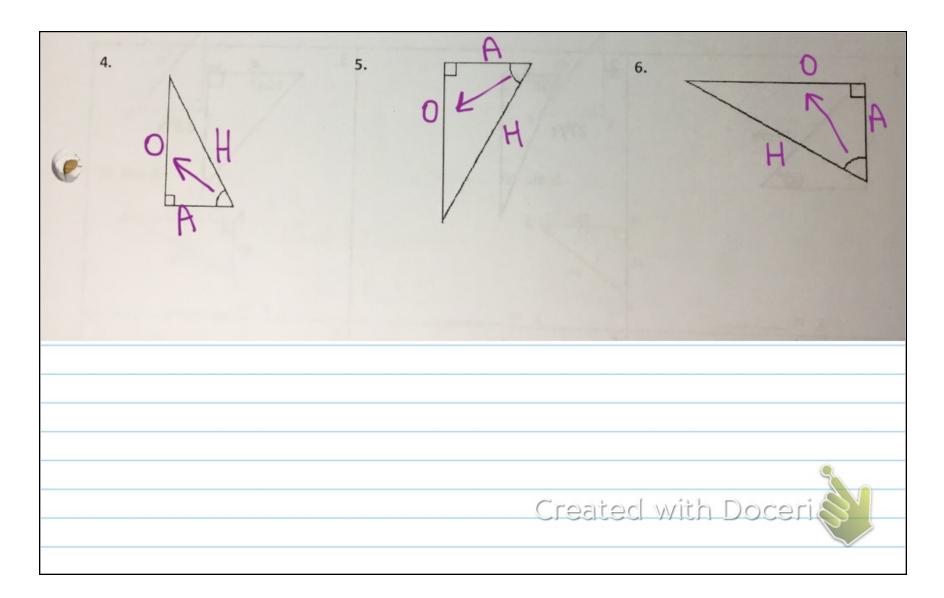
Evaluate each of the following (round to 4-decimal places): 1. sin(52°) 2. cos(122°) 3. tan(-76°) 4. cos(45°) .7880 - 4.0108 7. cos(184°) , 5290 5. sin(30°) 6. tan(95°) 8. tan(45°) -11.4301 To colve an equation means to find u . Created with Doceri

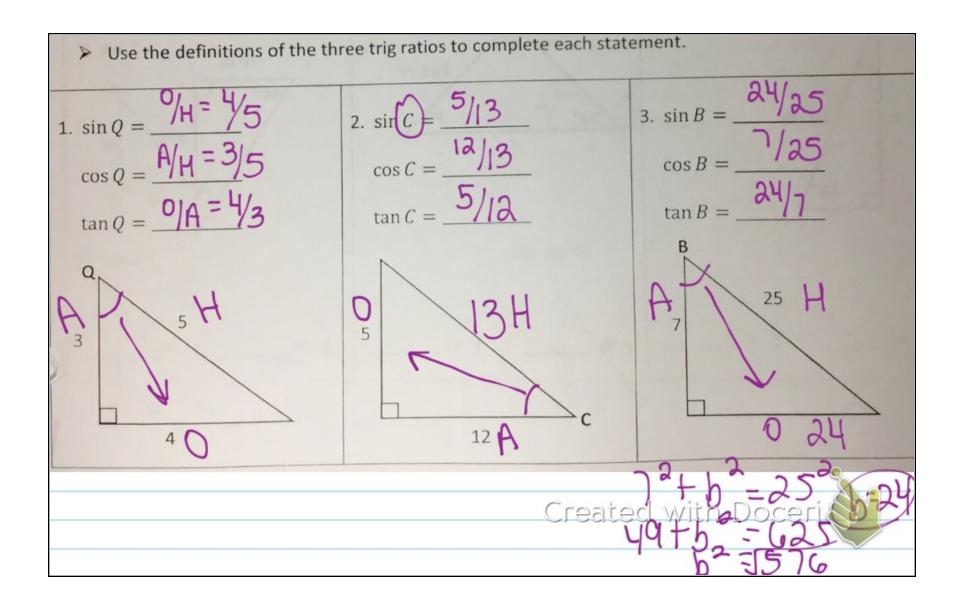
- To <u>solve</u> an equation means to find the value of the variable that makes both sides equal by isolating the variable using **inverse** operations.
- Sine, Cosine and Tangent also have inverse operations: sin^{-1} , cos^{-1} and tan^{-1} 2nd Function

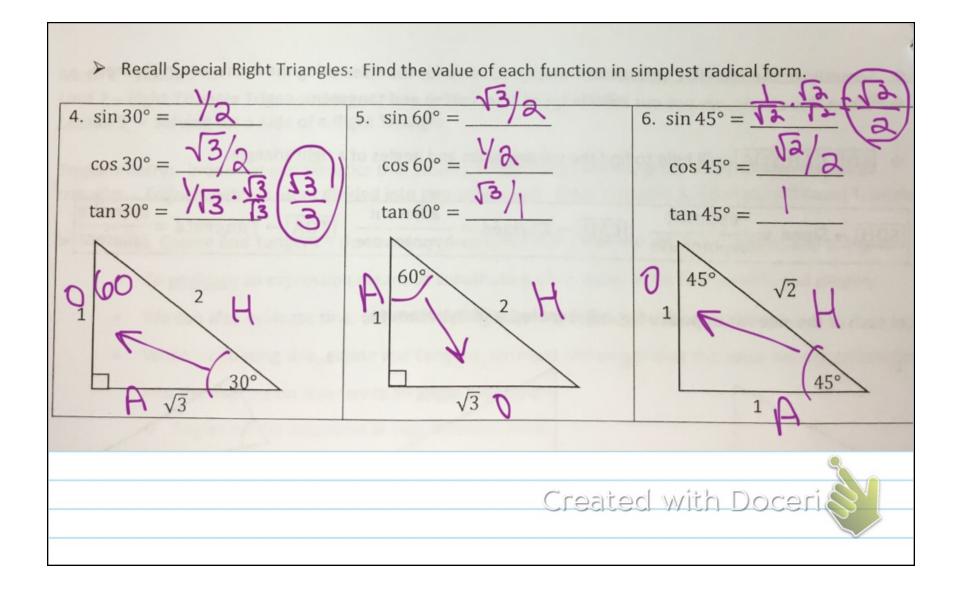
Solve each equation (round to tenth of a degree)

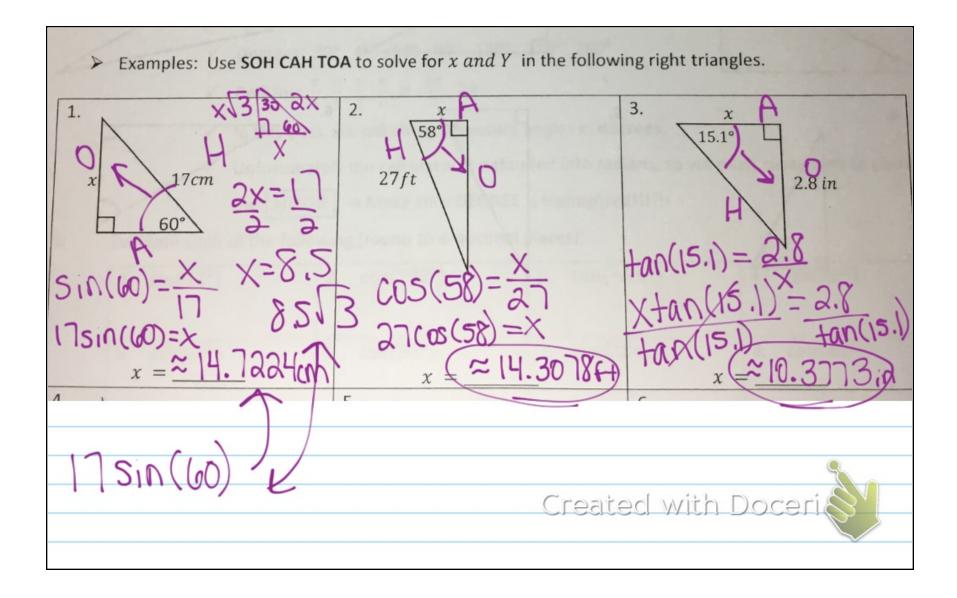


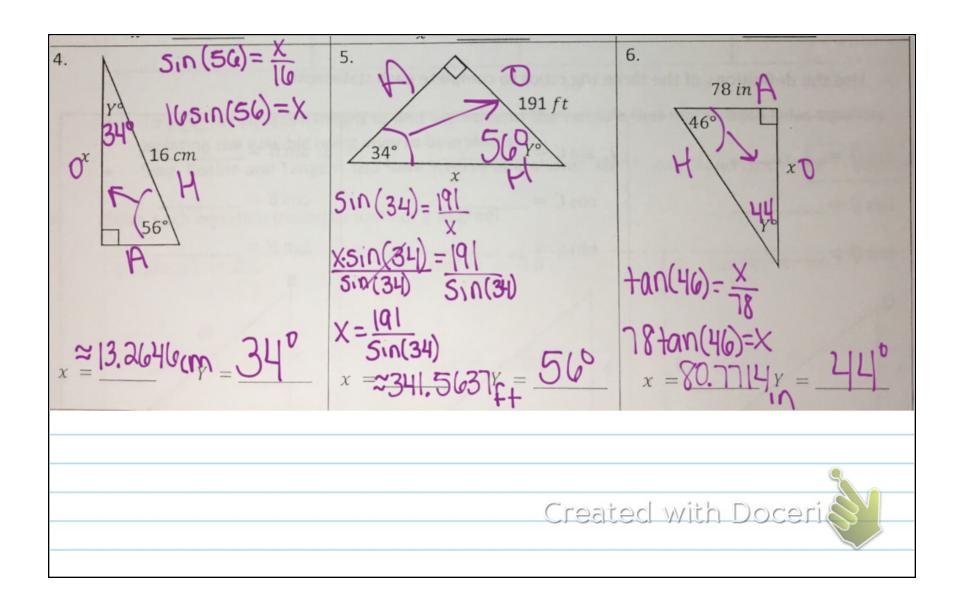












| H_{M} : [5-]] | |
|-----------------|---------------------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | Created with Doceri |
| | |

| Created with Doceri |
|---------------------|
| |
| |
| |
| × |
| |
| |
| |