

## Quiz for 9/10: Right Triangle Trig

You have 15 minutes. Please show all your work; if I can't follow your logic, I can't give you partial credit.

**Please put anything with a screen (except calculators) out of sight and leave them that way until you have left the classroom.**

Your answers for all questions should be exact numbers with no decimals.

1. A 30-60-90 triangle has a shortest side of 3. Find the measures of the other two sides. (Refer to diagram.)
2. A right triangle has a side of 7 opposite an angle of 45 degrees. Find the measures of the other two sides. (Refer to diagram.)
3. A right triangle has sides 5, 12, 13 and non-right angles  $\alpha$  and  $\beta$ . (Refer to diagram.) Find  $\sin \alpha$ ,  $\cos \alpha$ ,  $\sin \beta$ , and  $\cos \beta$ .