1. For the triangle $ABC$ we have that $C = 90°$. If $c = 10$ and $a = 6.428$ solve the triangle.

2. In a right triangle with the right angle at $A$, we have that $\tan B = \dfrac{2}{5}$ units. Find $\cos C$.

For the next two questions you should give *exact* answers. In particular, you should **not** use your calculator to get an approximation.

3. The hypotenuse of a right triangle is 50 units and one of its acute angles is 45°. Solve the triangle.

4. In a triangle $ABC$ with $C = 90°$ we have that $\cos B = \dfrac{1}{2}$. Find $\cos A$, $\tan A$, and $\tan B$.