1. Calculate the composite function $f \circ g$ and determine the domain.

$$f(x) = \sqrt{x}, \quad g(x) = 1 - x^3$$

holds.

2. If $\tan(\theta) = \frac{3}{4}$, find the value of

$$\sin(2\theta) \quad and \quad \csc(\theta)$$

hint: Draw a right triangle and use definition of trigonometric functions. For instance

$\sin(2\theta) = 2\sin(\theta)\cos(\theta)$. Here, you only need to find values of $\sin(\theta)$ and $\cos(\theta)$. 
3. Find the interval (intervals) at which the inequality

\[ 3 - \left| \frac{x - 1}{2} \right| > -1 \]