## Problem 7: Solve the system

Find all real solutions to the following system of equations

$$
\begin{aligned}
x+y & =\sqrt{4 z-1} \\
y+z & =\sqrt{4 x-1} \\
z+x & =\sqrt{4 y-1}
\end{aligned}
$$

As always, show your work, fully explain and justify your answer.

Posting Date 11/26/2017. Submit solutions to Noah Aydin, RBH 319 (e-mail or hard-copy, but hard copy submissions must include a time stamp) by 4 pm on $12 / 07 / 2017$.

