Find all real solutions to the following system of equations

$$x + y = \sqrt{4z - 1}$$
$$y + z = \sqrt{4x - 1}$$
$$z + x = \sqrt{4y - 1}$$

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.