

$$\boxed{x \quad x+3d \quad x+24d}$$

$$3x+27d=114 \quad | :3$$

$$\boxed{x+9d=38}$$

$$(x+3d)^2 = x(x+24d)$$

$$\cancel{x^2} + 6xd + 9d^2 = \cancel{x^2} + 24dx$$

$$9d^2 = 18dx$$

$$\begin{array}{cc} \downarrow & \downarrow \\ d=0 & 2x=d \end{array}$$

$$x+9d=38$$

$$\begin{array}{l} d=0 \\ x=38 \end{array}$$

$$38, 38, 38$$

$$2x=d$$

$$19x=38$$

$$\boxed{x=2}$$

$$2, 14, 98$$

