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$$a_1 = f_0, a_f = 41 \Rightarrow a_1 + r d = 41 \Rightarrow d = V$$

$$r_0 \wedge = f_0 + Vh - V \Rightarrow Vh = 1V \Rightarrow \boxed{h = r d}$$

$$V \times 10 = 10d, V \times 14 = 11r,$$

$$10 \wedge, 11 \wedge, \dots, 12 \wedge \Rightarrow Vh + 10 = 1 \Rightarrow Vh + 10 < 1000 \Rightarrow h < 12 \wedge / r$$

$$\Rightarrow \boxed{12 \wedge}$$

$$\begin{aligned} a_v + a_n + a_9 &= -r f \Rightarrow a_1 + 9d + a_1 + Vd + a_1 + 1d = -r f \Rightarrow a_1 + Vd = -1 = a_1 \\ a_1 + a_n + a_n &= -V \wedge \Rightarrow r a_1 + f \wedge d = -V \wedge \Rightarrow a_1 + 14d = -r f \end{aligned} \left. \vphantom{\begin{aligned} a_v + a_n + a_9 &= -r f \\ a_1 + a_n + a_n &= -V \wedge \end{aligned}} \right\} a_n + a_1 = \boxed{r f}$$

$$t_1 + 9d - t_1 - 11d = d \Rightarrow d = -\frac{d}{r}$$

$$t_1 + 9d + t_1 + 11d = r d \Rightarrow r t_1 - d = r d \Rightarrow t_1 = r V / d \left. \vphantom{t_1 + 9d + t_1 + 11d = r d} \right\} \Rightarrow \boxed{t_1 + r d = 12 / d}$$

$$t_1 + t_r + \dots + t_d = \frac{t_1 + t_r + \dots + t_d}{r} \Rightarrow d t_1 + 10d = \frac{d t_1 + r d d}{r} \Rightarrow r t_1 = d$$

$$\Rightarrow t_r = x t_1 \Rightarrow t_1 + d = x t_1 \Rightarrow r t_1 = x t_1 \Rightarrow \boxed{x = r}$$

$$d = \frac{b-a}{n+1} = \frac{x + \sqrt{r} - x + 12\sqrt{r}}{12} = \frac{12\sqrt{r}}{12} = \boxed{\sqrt{r}}$$