

$$a_1 - a_1 = d \quad a_1 + a_1 = 2d$$

$$14 \cdot 1 = 14 \quad 14 \cdot 1 = 14$$

$$14d = 14 \quad 14a_1 + 14d = 14$$

$$\boxed{d = \frac{14}{14}} \quad 14a_1 + 14\left(\frac{14}{14}\right) = 14a_1 + 14 = 14$$

$$\frac{a_1}{14} = a_1 + 14d = \frac{14}{14} + 14\left(\frac{14}{14}\right) = \frac{14}{14} + 14 \cdot 1 = \frac{14}{14} + 14$$

$$14a_1 = -14 \quad \boxed{a_1 = -\frac{14}{14}}$$

$$S_n = \frac{n}{2} (2a_1 + (n-1)d)$$

$$S_n = \frac{n}{2} (2a_1 + (n-1)d)$$

$$S_1 - S_n = d(2a_1 + 9d) - \frac{d}{2} (2a_1 + 9d) \rightarrow d(2a_1 + 9d) - d(a_1 + \frac{9d}{2}) =$$

$$1 \cdot a_1 + 9d = d a_1 + \frac{9d}{2}$$

$$\frac{1}{2} (2a_1 + 9d) = \frac{d}{2} (2a_1 + 9d)$$

$$1 \cdot a_1 + 9d = \frac{9d}{2}$$

$$1 \cdot d = \frac{9d}{2} - a_1$$

$$\boxed{d = \frac{9d}{2}}$$

$$a_1 = a_1 + d = a_1 + \frac{9d}{2} = \frac{9d}{2}$$

$$\frac{a_1}{a_1} = \frac{9d}{a_1} = \boxed{\frac{9}{2}}$$

$$t_n = t_1 + (n-1)d \quad t_1 + (n-1)d = t_1 + (n-1)d + 1d$$

$$t_n - t_1 = (n-1)d \quad (n-1)d - (n-1)d = 1d$$

$$t_n = t_1 + (n-1)d + 1d$$

$$14d = 14$$

$$\boxed{d = 1}$$

$$t_n = t_1 + 14d = t_1 + 14$$

$$t_1 = t_1 + 14 \quad t_2 = t_1 + 14 \quad t_3 = t_1 + 14$$

$$\frac{t_1 + 14}{t_1 + 14} = \frac{t_1 + 14}{t_1 + 14} = \boxed{1}$$

$$14 \cdot (14 + 14) = 14 \cdot 14 + 14$$

$$d = \frac{14 + 14 \cdot 14}{14 + 1} = \frac{14 + 196}{15} = \frac{210}{15} = 14$$

$$14(14 + 14) = 14 \cdot 14 + 14$$

$$d = \frac{14 + 14 \cdot 14}{14 + 1} = \frac{14 + 196}{15} = \frac{210}{15} = 14$$

$$14 = 14 + 14 \cdot \left(\frac{14}{14 + 1}\right) = 14 + \frac{14 \cdot 14}{15}$$

$$\frac{14 \cdot 14}{15} = \frac{14 \cdot 14}{15} = 14 \cdot 14 + 14$$

$$14 = 14$$

$$\boxed{n = 14}$$

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$$\alpha_n + \alpha_n + \kappa = \alpha_p + \alpha_{1v}$$

$$n + n + \kappa = p$$

$$2n = 14$$

$$n = 7$$

$$\alpha_n = \frac{p}{n} \alpha_p = \frac{14}{7} \alpha_p$$

$$\alpha_1 + 7d = 14\alpha_1 + 9d \rightarrow -2\alpha_1 = 2d$$

$$\boxed{\alpha_1 = -d}$$

$$\alpha_n = \alpha_1 (n-1) d = 0$$

$$\alpha_n = -d + nd - d = 0$$

$$\alpha_n = -2d + nd = 0$$

$$-2d + nd = 0$$

$$nd = 2d$$

$$\boxed{n = 2}$$

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