

$$a_n = a_1 + (n-1)d \rightarrow \omega + (n-1)f = f_{n+1} \rightarrow f_{n+1}$$

$$f(10) + 1 = f(11)$$

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$$S_n = \frac{n}{2} (2a_1 + (n-1)d) \rightarrow 10(12 + 19)f = 170f$$

$$f \times 1 = 17 \rightarrow 17, 34, 51, 68, 85, 102, 119, 136, 153, 170$$

$$S_{17} - S_{10} = 17(12 + 19f) - 10(12 + 19f) = 170f - 100f = 70f$$

$$a_r - a_1 = a_1 d - a_1 = d \rightarrow 2 - 1 - \sqrt{3} = 1 - \sqrt{3}$$

$$a_n = 1 + \sqrt{3} + (n-1)(1 - \sqrt{3}) \rightarrow 1 + \sqrt{3} + n - n\sqrt{3} - 1 + \sqrt{3} \rightarrow (2 - n)\sqrt{3} + n$$

$$a_{10} - a_{17} = a_{17} + rd - a_{17} = rd \rightarrow 2(1 - \sqrt{3}) \rightarrow 2 - 2\sqrt{3}$$

$$a_1 = 0^{rx} \quad a_r = 3x \cdot 0^{rx} \quad a_y = 0^y$$

$$a_x \cdot 0^{rx} = 0^{rx} + 0^y \rightarrow a = \frac{0^{rx} + 0^y}{0^{rx}} \rightarrow a = \frac{0^y}{0^{rx}} + 1 \rightarrow a = \frac{0^y}{0^{rx}} \rightarrow 0^{rx+1} = 0^y \rightarrow y = rx + 1$$

$$b_1 = x \quad b_r = 2 \quad b_y = 3$$

$$y + x = f \rightarrow rx + 1 + x = f \rightarrow rx = f - x - 1 \rightarrow y = 3$$

$$xy = 3 \times 1 = 3$$

$$rx - f, rx - 1, 4x$$

$$fx - f = rx - f + 4x \rightarrow 4x = rx + f \rightarrow fx = r \rightarrow x = \frac{1}{r}$$

$$d = r$$

$$a_n = rx - f + (n-1)r \rightarrow rx - f + rn - r \rightarrow rx + rn - r - 1 + rn - r \rightarrow 3n - 1$$

$$n = 1 \rightarrow 1 - 1 = 0$$

$$a \rightarrow r, \omega, v, 4, 11, 13, 15, 17$$

$$a_n = a_1 + (n-1)d \rightarrow r + (n-1)r \rightarrow r + rn - r \rightarrow rn$$

$$b \rightarrow 1, \omega, 1, 11, 13, 15, 17$$

$$b_n = b_1 + (n-1)d \rightarrow r + (n-1)r \rightarrow r + rn - r \rightarrow rn$$

$$a_{r_0} = r1 \quad b_{r_0} = \omega 9$$

$$a \cap b \rightarrow \omega + (n-1)d \rightarrow \omega + 4n - 4 \rightarrow 4n - 1$$

$$r1 = 4n - 1 \rightarrow 4n = r1 \rightarrow n = \frac{r1}{4}$$

$$n \leq v$$

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$$a_1 + a_r + a_r = r1 \rightarrow r a_1 + r d = r \rightarrow a_1 + d = v$$

$$a_1 + a_r + a_0 = 10\omega \rightarrow a_1 + r d = 10\omega \rightarrow a_1 + r d = 10\omega$$

$$\begin{cases} a_1 + d = v \\ a_1 + r d = 10\omega \end{cases} \rightarrow d = r1 \quad a_1 = v - r1 = -r1$$

$$\frac{a_r - a_r + a_1}{a_1} = \frac{a_1 + r d - a_1 - d + a_1}{a_1} \Rightarrow \frac{a_1 + d}{a_1} \rightarrow \frac{-r1 + r1}{-r1} \rightarrow \frac{v}{-r1} = \frac{-1}{r}$$

$$a_1 + a_r + a_r = 10\omega \rightarrow r a_1 + r d = 10\omega \rightarrow \frac{a_1 + d}{a_1} = \frac{10\omega}{r}$$

$$a_r + a_0 = r\omega \rightarrow r a_1 + v d = r\omega \rightarrow \frac{r a_1 + r d + \omega d}{10} = r\omega \rightarrow \omega d = 10\omega \rightarrow d = r$$

$$a_1 = 10 - r = r$$

$$a_n = a_1 + (n-1)d \rightarrow r + rn - r \rightarrow rn$$

$$a_{10} = r(10) - 1 = 19$$

$$S_9 = 4 S_r$$

$$\hookrightarrow \frac{n}{r} (ra_1 + (n-1)d) = 4 \left(\frac{n}{r} (ra_1 + (n-1)d) \right)$$

$$\hookrightarrow \frac{9}{r} (ra_1 + 1d) = \frac{rv}{r} (ra_1 + rd)$$

$$\hookrightarrow ra_1 + 1d = 4a_1 + 4d$$

$$\hookrightarrow fa_1 = rd \rightarrow a_1 = d$$

$$\hookrightarrow a_1 = \frac{d}{r}$$

$$a_{r_0} \rightarrow a_1 + 14d \rightarrow 19, \omega d$$

$$a_v = a_1 + 4d \rightarrow 4, \omega d$$

$$\frac{a_{r_0}}{a_v} = \frac{19, \omega d}{4, \omega d} \Rightarrow \frac{19}{4}$$

$$a_1 = 11 \quad a_v = r\omega \rightarrow a_1 + 4d = r\omega$$

$$\begin{cases} 11 = a_1 \\ r\omega = a_1 + 4d \end{cases} \rightarrow rf = 4d \rightarrow d = f$$

$$a_n = 11 + (n-1)f \rightarrow rn + v$$

$$a_f = 14 + v = rf$$

$$a_1 = 11$$

$$a_r = a_1 + rd \rightarrow 11 + rd = rf$$

$$10 = -rd \rightarrow d = -10$$

$$a_n = 11 \rightarrow a_1 + (n-1)d \Rightarrow 11 - 10n + 10 = 0$$

$$\hookrightarrow rf - 10n = 11 \rightarrow 10n = rf - 11 \rightarrow n = 4$$

$$11, \quad \quad, 13$$

$$(11) \quad \quad, f \quad (9)$$