

1 $x^r + 2x = a_n \cdot f \xrightarrow{n=a} a^r + 2a = a^r \cdot f \rightarrow 2a = -f \rightarrow a = -\frac{f}{2}$ (1)

2 $y(n) = rx + b \xrightarrow{\substack{n=r \\ y=f}} r + b = f \rightarrow b = f - r \rightarrow g(n) = x - 1$ (2)

3 $f(n) = \frac{n^r + a}{r \cdot b} = \frac{n^r + a}{r + 1} \xrightarrow{\substack{n=r \\ y=f}} \frac{r + a}{r + 1} = \frac{f + a}{r} \rightarrow \frac{f + a}{r} = \frac{f}{r} \rightarrow f + a = f \rightarrow a = 0$

4 $\rightarrow f(1) = \frac{1 + 11}{r + 1} = \frac{12}{r} = f$

5 $rx^r = a + b \xrightarrow{n=-1} r - a + b = 0 \rightarrow b - a = -r$ (3)

6 $\xrightarrow{n=2} 2r + 2a + b = 0 \rightarrow b + 2a = -2r$

7 $b - a - b + a = -2r + r \rightarrow -a = -r \rightarrow a = r \rightarrow b - r + a = b - r + r = b = -1$

8 $\rightarrow f(n) = \frac{(n+1)}{r^2 - 4n - 1} \rightarrow f(1) = \frac{2}{r^2 - 4 - 1} = \frac{-2}{r^2 - 5}$

10 $n = -1 \rightarrow -r - a + b = 0 \rightarrow b - a = r \rightarrow b = r + a$ (4)

11 $rx^r + a + b \Delta = 0 \rightarrow a^r + 14b = 0 \rightarrow a^r + 14a + 14r = 0 \rightarrow (a+1)^r = 0$

12 $\rightarrow a = -1 \rightarrow b = r - 1 = -r \rightarrow a + b = -1 - r = -1 - r$

13 $\Delta < 0 \rightarrow m^2 - 4 < 0 \rightarrow (m-2)(m+2) < 0 \rightarrow \frac{-2}{+} \frac{2}{-}$ (5)

14 $\rightarrow (-2, 2)$

15 $\frac{f}{n^r} \geq 0 \rightarrow f \geq \frac{1}{n^r} \rightarrow \frac{fn^r}{n^r} \geq \frac{1}{n^r} \rightarrow fn^r \geq 1 \rightarrow n^r \geq \frac{1}{f}$ (6)

16 $\rightarrow n \geq \frac{1}{f} \rightarrow n \leq -\frac{1}{f} \rightarrow [\frac{1}{f}, +\infty) \cup (-\infty, -\frac{1}{f}]$

17 $\Delta = fm^2 - 4m = 4m(m-1) \rightarrow \frac{0}{+} \frac{1}{-} \rightarrow \phi [0, 1]$ (7)

18 $m > 0 \rightarrow (0, 1]$

Subject: _____

Date: _____

$$1 \quad n = \frac{1}{r} \rightarrow 1 + r = r + r \rightarrow k = 0$$

(A)

$$2 \quad r_a - 1 = 0 \rightarrow r_a = 1 \rightarrow a = \frac{1}{r} \quad \left\{ \begin{array}{l} a + r = \frac{1}{r} \end{array} \right.$$

$$4 \quad n = \frac{r}{r} \rightarrow -r + b = -r + b \rightarrow b + r = f \rightarrow \frac{b-r}{r} \cdot r = f \rightarrow a = r$$

(A)

$$5 \quad n = 1 \rightarrow \frac{a - \frac{1}{r}}{r + r} = 1 \rightarrow r + b \rightarrow b = -r$$

$$\rightarrow a - b = r + r = d$$

$$8 \quad n = r \rightarrow r a^r + r a = f \rightarrow a^r + a - r = 0 \rightarrow (a + r)(a - 1) = 0$$

(A)

$$\rightarrow \boxed{a = -r \quad a = 1}$$