

4, 8

بابت جائز

$$f \circ g \rightarrow f(g(n))$$

$$f \circ g \rightarrow f(g(n)) = f(4, 8) = f(4, 16) = f(8, 16)$$

$$4 \rightarrow 4 \rightarrow 8$$

$$4 \rightarrow 4 \rightarrow 8$$

$$4 \rightarrow 8 \rightarrow 16$$

$$8 \rightarrow 16 \rightarrow 16$$

2

$$g \circ f \rightarrow g(f(n)) \rightarrow \phi$$

$$f \circ f \rightarrow f(f(n)) \rightarrow \phi$$

$$4 \rightarrow 8$$

$$4 \rightarrow 8$$

$$8 \rightarrow 16$$

$$16 \rightarrow 16$$

$$4 \rightarrow 8$$

$$4 \rightarrow 8$$

$$8 \rightarrow 16$$

$$16 \rightarrow 16$$

$$g \circ g \rightarrow g(g(n)) \rightarrow g(g(4, 8)) = g(g(4, 16)) = g(8, 16)$$

$$4 \rightarrow 4 \rightarrow 8$$

$$4 \rightarrow 4 \rightarrow 8$$

$$4 \rightarrow 8 \rightarrow 16$$

$$8 \rightarrow 16 \rightarrow 16$$

$$f(gx)$$

$$(a, r)$$

$$\underline{a}$$

$$1 \rightarrow r \rightarrow 1$$

$$\boxed{a, r}$$

$$(1)$$

$$r \rightarrow 1 \rightarrow r$$

$$b, r$$

$$b, r$$

$$a \rightarrow r \rightarrow r$$

$$\frac{b, r}{r, r}$$

$$(r, r)$$

$$b \rightarrow 1 \rightarrow r$$

$$f(r) = a, g(a) = 1, b = a$$

$$f(x) = \sqrt{x+1} \rightarrow$$

$$|x| \geq x+1$$

$$-y$$

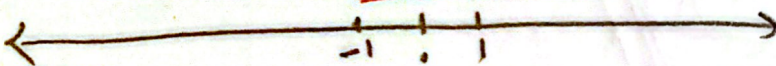
$$g(x) = \sqrt{x}, f(x) = \sqrt{1-x^2} - 1$$

$$x \geq 0$$

$$-1 \leq x \leq 1$$

$$1-x^2 \geq 0$$

$$x^2 \leq 1$$



$$D_g \cap D_f = [-1, 1]$$

$$x \geq 0$$

$$\sqrt{1-(0)^2} = 1$$

$$\sqrt{1} = 1$$

$$0 \leq \sqrt{1-x^2} \leq 1 \Rightarrow x^2 \leq 1$$

$$\{0, 1\}$$

$$\sqrt{1-(-1)^2} = 0$$

$$\sqrt{0} = 0$$

$$D_{(f+g)} = [-1, 1]$$

$$f\left(\frac{rn+1}{n-r}\right) = rn+a$$

-9

$$f\left(\frac{rn+1}{n-r}\right) + a$$

$$\frac{1rn+1}{n-r} + \frac{an-1}{n-r} \rightarrow \frac{1rn-a}{n-r}$$

$$g(n) \sqrt{1-r^2} \rightarrow f(n) = \sin n \quad -10$$

$$g(f(n))$$

$$\sin \frac{\pi}{2} = \frac{\sqrt{r}}{r}$$

$$1 - \left(\frac{\sqrt{r}}{r}\right)^2 \rightarrow$$

$$\sqrt{\frac{r}{r} - \frac{r}{r}} = \sqrt{\frac{r}{r}} \quad \frac{\sqrt{r}}{r} \times \frac{\sqrt{r}}{r} = \frac{r}{r} = 1/r$$

$$\frac{\sqrt{r}}{1-\sqrt{r}} \quad \text{circled } -1$$

$$f(g(n)) = -1$$

$$\sqrt{r} + 1 = 1$$

$$f\left(\frac{\sqrt{r}}{1-\sqrt{r}}\right) = \left[\frac{\sqrt{r}}{1-\sqrt{r}}\right]$$

$$\left[\frac{1}{1-\sqrt{r}}\right] - 1 = \frac{\sqrt{r}+1}{1-\sqrt{r}} + \frac{1}{1-\sqrt{r}}$$

$$\frac{1}{1-\sqrt{r}} = 1$$