

سوال ۸

$$y = 2^x - 1 \rightarrow -4 = -2 - a \rightarrow a = 1$$
$$-4 = (-1)^3 - 1 + b \Rightarrow -4 = -4 + b \Rightarrow b = 0$$
$$2^x + 2^y = 2 - 2^x - 1 \rightarrow 2^x - 2^y - 1 = 0 \rightarrow (2^x + 1)(2^y - 2^x - 1) = 0$$
$$2^x = 1 \rightarrow x = 0 \rightarrow y = 2^0 - 1 = 0$$
$$\frac{1 + \sqrt{5}}{2} + 1 = \frac{\sqrt{5}}{2} = \frac{2}{2} = 1$$

$$a + b = 2a \Rightarrow a = b$$

$$\Rightarrow a = 2a + 1 = 2a \rightarrow -3a = 1 \rightarrow a = \left(\frac{1}{3}\right)$$

سوال ۱۰ تابع همانی است پس برای مثال

$$\frac{c+1}{2} = 0 \rightarrow c = -1$$
$$\frac{4-a}{b+3} = 1 \rightarrow 4-a = b+3 \Rightarrow a+b = 1$$

$$a+b+c = 1 - 1 = \text{صفر}$$