

$$r f(\omega) = r(a+1)(v) = 14a + 14$$

$$f(-r) = 14a - 14$$

$$14a + 14 = 14a - 14 + a \Rightarrow a = -\frac{9}{\omega}$$

2

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$$r f(x) - r f(-x) = 14x^r - 2x$$

$$-r f(x) + r f(-x) = 14x^r + 2x$$

$$\Rightarrow -\omega f(x) = 14x^r - 14x + 14x^r + 2x = 10x^r + 2x$$

$$\Rightarrow f(x) = -14x^r - \frac{2}{\omega}$$

2

$$\textcircled{1} x=0 \quad \left\{ \begin{array}{l} r f(0) = 14m-1 \end{array} \right. \Rightarrow 9m-r$$

$$\Rightarrow 9m-r = 10 + 0m$$

$$\textcircled{2} x=-r \quad \left\{ \begin{array}{l} 4f(0) = 14 + 14m + 14m - 1 = 10 + 0m \end{array} \right.$$

$$m = \frac{9}{r} \checkmark$$

$$\Rightarrow 4f(0) = \frac{10}{r} \Rightarrow \frac{10}{r} = f(0) \checkmark$$

2

$$f(-1) + f(-1) = \frac{14 + 14 + 14}{-1} \Rightarrow f(-1) = -9 \checkmark$$

2

$$\frac{1}{\sqrt{2-\sqrt{3}}} \times \frac{\sqrt{2+\sqrt{3}}}{\sqrt{2+\sqrt{3}}} = \frac{\sqrt{2+\sqrt{3}}}{1}$$

$$\frac{1}{\sqrt{2+\sqrt{3}}} \times \frac{\sqrt{2-\sqrt{3}}}{\sqrt{2-\sqrt{3}}} = \frac{\sqrt{2-\sqrt{3}}}{1}$$

سوال ۷

$$f(2-\sqrt{3}) + f(2+\sqrt{3}) = 2\sqrt{2+\sqrt{3}} + 2\sqrt{2-\sqrt{3}} + 4$$

$$2 \left(\underbrace{\sqrt{2+\sqrt{3}} + \sqrt{2-\sqrt{3}}}_{\sqrt{4}} \right) + 4 = 2\sqrt{4} + 4$$