

$$-\frac{1}{2} = a(n-2)^2 + 4$$

$$x \Rightarrow y$$

$$0 \Rightarrow -\frac{1}{2} \times \frac{1}{2} = -\frac{1}{4} \neq 4 \quad \checkmark$$

$$\frac{1}{2}(n^2 + 4n(-4n))$$

$$-\frac{n^2}{2} + 4n = -\frac{1}{2} \neq 4$$

$$n^2 - (4a+4)n + (4a^2 - 4a + 2) = 0$$

کیرشده  
دکتره؟

$$4 - 4a + 4 + 4a^2 - 4a + 2 = 0$$

$$4a^2 - 4a - 1 \Rightarrow a < \frac{1}{2}$$

$$\Delta > 0 \Rightarrow 16a \Rightarrow n^2 - 4n + (4a^2 - 4a + 2)$$

$$4a^2 - 4(14) > 0 \quad \checkmark \quad \sigma_c \quad a \checkmark$$

$$n^2 - 4n + 14 \quad (n-2) \quad (n-6)$$

$$\downarrow$$

$$\textcircled{P} \Rightarrow \frac{4}{2}$$

$$n^2 - \frac{1}{2}n + \frac{6}{2} = 0 \quad \Delta = \frac{1}{4} - \frac{1}{2} = -\frac{1}{4}$$

$$n = \frac{\Delta \pm \sqrt{\Delta}}{2} \rightarrow n_1 = \boxed{\frac{1}{2}} \rightarrow n_2 = 2$$

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$$\frac{a+b}{ab} = \frac{1}{a} + \frac{1}{b}$$

$$\frac{\frac{1}{2}}{-\frac{1}{2}} = 1 \rightarrow \frac{-\frac{1}{2}}{-\frac{1}{2}} = \textcircled{E} \quad \frac{E}{-1} = -\frac{1}{2}$$

$a = 2$   $\frac{-1}{2(a-1)} = 2 \Rightarrow (a-1) = -\frac{1}{2} \Rightarrow a = \frac{1}{2}$   
 $\Delta = (a-1)a^2 + a = 2$   
 $-a^2 + (a+1)a = 2 \Rightarrow (a+1)(a-2) = \frac{-4}{-1} \Rightarrow 4, -2 \Rightarrow \textcircled{4}$

$\Delta = m^2 - 2m + 1$   $m > 0$   
 $\Delta > 0 \Rightarrow m^2 - 2m + 1 > 0 \Rightarrow (m-1)^2 > 0 \Rightarrow m \neq 1$   
 $\Delta = 0 \Rightarrow m = 1$   
 $\Delta < 0 \Rightarrow m^2 - 2m + 1 < 0 \Rightarrow (m-1)^2 < 0$

$a+b = \frac{2-\sqrt{5}+2+\sqrt{5}}{2} = 2$   
 $a \times b = \frac{2-\sqrt{5}}{2} \times \frac{2+\sqrt{5}}{2} = \frac{4-5}{4} = -\frac{1}{4}$   
 $(a^2 - a + \frac{1}{a})^4 = a^4 - 4a^3 + 6a^2 - 4a + 1$

$a^2 - a + \frac{1}{a} = 2$   
 $a^3 - a^2 + 1 = 2a$   
 $a^3 - 2a^2 + 1 = 0$   
 $(a-1)^2(a+1) = 0$   
 $a = 1$

$a^2 + b^2 = 1$   
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