$$E_{p} = E_{p_{\max}} \Rightarrow \sin^{2}\left(3t_{p} + \frac{\pi}{3}\right) = 1 \Rightarrow \sin\frac{n+1}{n+2} - \frac{(n+2)}{n+3} = Sh_{0} = 2V_{0} = 2 \cdot 8 \cdot 10^{-2} \cdot 0, 8 = 12, 8 \cdot 10$$

$$= \sin\left(\frac{\pi}{2} + n\pi\right); n = 0, 1, 2, \dots$$

$$(-1)^{n+1} \frac{1}{(n+2)^{n}} + (-1)^{n} \cdot \frac{n+3}{n+1} \cdot \frac{1}{(n-2)^{n}} + \frac{1}{(n+2)^{n}} \cdot \frac{1}{(n+2)^{n}} + \frac{1}{(n+2)^{n}} \cdot \frac{1}{(n+2)^{n}} \cdot \frac{1}{(n+2)^{n}} + \frac{1}{(n+2)^{n}} \cdot \frac{1}{(n+2)^{n$$

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1. Does 17 divide each of these numbers?

- a) 68
- b) 84

b) 
$$84 / 17 = 4.94$$
 "No, it can't"

2. Suppose that a and b are integers,  $a \equiv 4 \pmod{13}$ , and  $b \equiv 9 \pmod{13}$ . Find the integer c with

 $0 \le c \le 12$  such that  $c \equiv 9a \pmod{13}$ .

$$a = 13k + 4$$

$$b = 13m + 9$$

$$c = 13n + 9a$$

at 
$$k = 0$$
 then,  $a = 4$ 

$$c = 13n + 9a$$

$$c = 13n + 9*4$$

 $c = 36 \mod 13$ 

c = 10

Assignment SIX 2