

18/10/2024

Thực hành 1

Thực nghiệm

Cân 1: B

Cân 2: B; C

Cân 3: C

Cân 4: C

Cân 5: C

Cân 6: B

Cân 7: D

Cân 8: C

Từ luận

$$a, 196 + 121 + 54 + 379$$

$$= (196 + 379) + (121 + 54)$$

$$= 200 + 500$$

$$= 700$$

$$b, 35 \cdot 34 + 35 \cdot 86 + 65 \cdot 75 + 65 \cdot 45$$

$$= 35 \cdot (34 + 86) + 65 \cdot (75 + 45)$$

$$= 35 \cdot 120 + 65 \cdot 120$$

$$= 120 \cdot (35 + 65)$$

$$= 120 \cdot 100$$

$$= 12000$$

$$b, c, 150 : \{ 250 : [450 - (4.5^3 - 2^2 \cdot 25)] \}$$

$$= 250 : [450 - (4 \cdot 125 - 4 \cdot 25)]$$

$$= 250 : [450 - (500 - 100)]$$

$$= 250 : [450 - 400]$$

$$= 250 : 50$$

$$= 5$$

$$\text{Bài 1, } 5871 : [928 - (247 - 82) \cdot 5] + 2175^0$$

$$= 5871 : [928 - 165 \cdot 5] + 0$$

$$= 5871 : [928 - 825] + 0$$

$$= 5871 : 103 + 0$$

$$= 57 + 0$$

$$= 57$$

Bài 2

$$a(x - 15) - 75 = 0$$

$$(x - 15) = 75 + 0$$

$$x - 15 = 75$$

$$x = 75 + 15$$

$$x = 90$$

$$\text{Vậy } x = 90$$

$$\text{b, } (x - 105) : 21 = 15$$

$$(x - 105) = 15 \times 21$$

$$x - 105 = 315$$

$$x - 105 = 315 + 105$$

$$x = 420$$

$$\text{Vậy } x = 420$$

$$c, x^3 = 27$$

$$x^3 = 3^3$$

$$\Rightarrow x = 3$$

$$\text{Vậy } x = 3$$

$$d, (3x - 2^4) \cdot 7 = 2 \cdot 7^4$$

$$(3x - 2^4) \cdot 7^3 = 2 \cdot 2401$$

$$(3x - 2^4) \cdot 7^3 = 40284802$$

$$(3x - 2^4) \cdot 343 = 4802$$

$$(3x - 2^4) = 4802 : 343$$

$$(3x - 2^4) = 14$$

$$(3x - 16) = 14$$

$$3x = 16 + 14$$

$$3x = 30$$

$$x = 30 : 3$$

$$x = 10$$

Vậy $x = 10$

$$2^x + 2^{x+1} = 96$$

$$2^x + 2^{x+1} = 96$$

$$4^{x+1} = 96$$

$$x + 1 = 96 + 4$$

$$x + 1 = 100$$

$$x = 100 - 1$$

$$x = 99$$

Vậy $x = 99$

Bài 3

$$a, 84 : x ; 180 : x \text{ và } x \geq 6$$

Ta có:

$$84 : x$$

$$180 : x$$

$$\Rightarrow x \in \text{ƯC}(84; 180)$$

$$\text{Mà } x \text{ lớn hơn hoặc bằng } 6 \Rightarrow x \in \text{ƯC}(84; 180)$$

$$84 = 2^2 \cdot 3 \cdot 7$$

$$180 = 2^3 \cdot 3^2 \cdot 5$$

$$\Rightarrow \text{UCLN}(84; 180) = 2 \cdot 3 \cdot 3 \cdot 7 = 210$$

$$\text{Vậy } x = 210$$

$$b, x: 28, x: 56, x: 70 \text{ mà } 500 < x < 600$$

$$x: 28 \quad 28 = 2^3 \cdot 7$$

$$x: 56 \quad 56 = 2^3 \cdot 7$$

$$x: 70 \quad 70 = 2 \cdot 7 \cdot 5$$

$$\Rightarrow \text{BCNN}(28; 56; 70) = 2^3 \cdot 7 = 56$$

$$\Rightarrow x =$$

$$\Rightarrow \text{BC}(28; 56; 70) = \{0; 56; 112; 168; 224; 280; 336; 392; 448; 504; \dots\}$$

$$\text{Mà } 500 < x < 600$$

$$\Rightarrow x = 504$$

$$\text{Vậy } x = 504$$