

## CHUYÊN ĐỀ : THỰC HIỆN PHÉP TÍNH

### 1. Các kiến thức vận dụng:

+ Tính chất của phép cộng, phép nhân

+ Các phép toán về lũy thừa:

$$a^n = \underbrace{a.a\dots a}_n; \quad a^m \cdot a^n = a^{m+n}; \quad a^m : a^n = a^{m-n} \quad (a \neq 0, m \geq n)$$

$$(a^m)^n = a^{m \cdot n}; \quad (a \cdot b)^n = a^n \cdot b^n; \quad \left(\frac{a}{b}\right)^n = \frac{a^n}{b^n} \quad (b \neq 0)$$

### 2. Các dạng bài tập

#### Dạng 1: RÚT GỌN

Bài 1: Thực hiện phép tính:

$$\text{a, } \frac{2^{12} \cdot 3^5 - 4^6 \cdot 9^2}{(2^2 \cdot 3)^6} - \frac{5^{10} \cdot 7^3 - 25^5 \cdot 49^2}{(125 \cdot 7)^3 + 5^9 \cdot 14^3} \quad \text{b, } \frac{2^{18} \cdot 18^7 \cdot 3^3 + 3^{15} \cdot 2^{15}}{2^{10} \cdot 6^{15} + 3^{14} \cdot 15 \cdot 4^{13}} \quad \text{c, } \frac{4^6 \cdot 9^5 + 6^9 \cdot 120}{8^4 \cdot 3^{12} - 6^{11}}$$

HD :

$$\text{a, Ta có: } \frac{2^{12} \cdot 3^5 - 4^6 \cdot 9^2}{(2^2 \cdot 3)^6} - \frac{5^{10} \cdot 7^3 - 25^5 \cdot 49^2}{(125 \cdot 7)^3 + 5^9 \cdot 14^3} = \frac{2^{12} \cdot 3^5 - (2^2)^6 \cdot (3^2)^2}{2^{12} \cdot 3^6} - \frac{5^{10} \cdot 7^3 - (5^2)^5 \cdot (7^2)^2}{(5^3)^3 \cdot 7^3 + 5^9 \cdot 2^3 \cdot 7^3}$$

$$= \frac{2^{12} \cdot 3^5 - 2^{12} \cdot 3^4}{2^{12} \cdot 3^6} - \frac{5^{10} \cdot 7^3 - 5^{10} \cdot 7^4}{5^9 \cdot 7^3 + 5^9 \cdot 2^3 \cdot 7^3} = \frac{2^{12} \cdot 3^4 (3-1)}{2^{12} \cdot 3^6} - \frac{5^{10} \cdot 7^3 (1-7)}{5^9 \cdot 7^3 (1+8)} = \frac{2}{3^2} - \frac{5 \cdot 6}{9} = \frac{-28}{9}$$

$$\text{b, Ta có: } \frac{2^{18} \cdot 18^7 \cdot 3^3 + 3^{15} \cdot 2^{15}}{2^{10} \cdot 6^{15} + 3^{14} \cdot 15 \cdot 4^{13}} = \frac{2^{18} \cdot 2^7 \cdot 3^{14} \cdot 3^3 + 3^{15} \cdot 2^{15}}{2^{10} \cdot 2^{15} \cdot 3^{15} + 3^{14} \cdot 3 \cdot 5 \cdot 2^{28}} = \frac{2^{25} \cdot 3^{17} + 3^{15} \cdot 2^{15}}{2^{25} \cdot 3^{15} + 3^{15} \cdot 2^{28} \cdot 5}$$

$$= \frac{2^{15} \cdot 3^{15} (2^{10} \cdot 3^2 + 1)}{2^{25} \cdot 3^{15} (1 + 2^3 \cdot 5)} = \frac{(2^{10} \cdot 3^2 + 1)}{2^{10} \cdot 41}$$

$$\text{c, Ta có: } \frac{4^6 \cdot 9^5 + 6^9 \cdot 120}{8^4 \cdot 3^{12} - 6^{11}} = \frac{(2^2)^6 \cdot (3^2)^5 + 2^9 \cdot 3^9 \cdot 2^3 \cdot 3 \cdot 5}{(2^3)^4 \cdot 3^{12} - 2^{11} \cdot 3^{11}} = \frac{2^{12} \cdot 3^{10} + 2^{12} \cdot 3^{10} \cdot 5}{2^{12} \cdot 3^{12} - 2^{11} \cdot 3^{11}}$$

$$= \frac{2^{12} \cdot 3^{10} (1+5)}{2^{11} \cdot 3^{11} (2 \cdot 3 - 1)} = \frac{2 \cdot 6}{3 \cdot 5} = \frac{4}{5}$$

Bài 2: Thực hiện phép tính:

$$\text{a, } \frac{5 \cdot 4^{15} \cdot 9^9 - 4 \cdot 3^{20} \cdot 8^9}{5 \cdot 2^{29} \cdot 9^{16} - 7 \cdot 2^{29} \cdot 27^6} \quad \text{b, } \frac{2^4 \cdot 5^2 \cdot 11^2 \cdot 7}{2^3 \cdot 5^3 \cdot 7^2 \cdot 11} \quad \text{c,}$$

$$\frac{5^{11} \cdot 7^{12} + 5^{11} \cdot 7^{11}}{5^{12} \cdot 7^{11} + 9 \cdot 5^{11} \cdot 7^{11}}$$

HD :

$$\text{a, Ta có: } \frac{5 \cdot 4^{15} \cdot 9^9 - 4 \cdot 3^{20} \cdot 8^9}{5 \cdot 2^{29} \cdot 3^{16} - 7 \cdot 2^{29} \cdot 27^6} = \frac{5 \cdot 2^{30} \cdot 3^{18} - 2^{29} \cdot 3^{20}}{5 \cdot 2^{29} \cdot 3^{16} - 7 \cdot 2^{29} \cdot 3^{18}} = \frac{2^{29} \cdot 3^{18} (5 \cdot 2 - 3^2)}{2^{29} \cdot 3^{16} (5 - 7 \cdot 3^2)} = \frac{3^2}{-58} = \frac{-9}{58}$$

$$\text{b, Ta có: } \frac{2^4 \cdot 5^2 \cdot 11^2 \cdot 7}{2^3 \cdot 5^3 \cdot 7^2 \cdot 11} = \frac{2 \cdot 11}{5 \cdot 7} = \frac{22}{35}$$

$$c, \text{ Ta có: } \frac{5^{11} \cdot 7^{12} + 5^{11} \cdot 7^{11}}{5^{12} \cdot 7^{11} + 9 \cdot 5^{11} \cdot 7^{11}} = \frac{5^{11} \cdot 7^{11} (7+1)}{5^{11} \cdot 7^{11} (5+9)} = \frac{8}{14} = \frac{4}{7}$$

Bài 3: Thực hiện phép tính:

$$a, \frac{11 \cdot 3^{22} \cdot 3^7 - 9^{15}}{(2 \cdot 3^{14})^2}$$

$$b, \frac{2^{10} \cdot 3^{10} - 2^{10} \cdot 3^9}{2^9 \cdot 3^{10}}$$

$$c, \frac{4^5 \cdot 9^4 - 2 \cdot 6^9}{2^{10} \cdot 3^8 + 6^8 \cdot 20}$$

HD :

$$a, \text{ Ta có: } \frac{11 \cdot 3^{22} \cdot 3^7 - 9^{15}}{(2 \cdot 3^{14})^2} = \frac{11 \cdot 3^{29} - 3^{30}}{2^2 \cdot 3^{28}} = \frac{3^{29} \cdot (11-3)}{2^2 \cdot 3^{28}} = \frac{3 \cdot 8}{4} = 6$$

$$b, \text{ Ta có: } \frac{2^{10} \cdot 3^{10} - 2^{10} \cdot 3^9}{2^9 \cdot 3^{10}} = \frac{2^{10} \cdot 3^9 (3-1)}{2^9 \cdot 3^{10}} = \frac{2 \cdot 2}{3} = \frac{4}{3}$$

$$c, \text{ Ta có: } \frac{4^5 \cdot 9^4 - 2 \cdot 6^9}{2^{10} \cdot 3^8 + 6^8 \cdot 20} = \frac{2^{10} \cdot 3^8 - 2^{10} \cdot 3^9}{2^{10} \cdot 3^8 + 2^{10} \cdot 3^8 \cdot 5} = \frac{2^{10} \cdot 3^8 (1-3)}{2^{10} \cdot 3^8 (1+5)} = \frac{-2}{6} = \frac{-1}{3}$$

Bài 4: Thực hiện phép tính:

$$a, \frac{2^{12} \cdot 3^5 - 4^6 \cdot 9^2}{(2^2 \cdot 3)^6 + 8^4 \cdot 3^5} - \frac{5^{10} \cdot 7^3 - 25^5 \cdot 49^2}{(125 \cdot 7)^3 + 5^9 \cdot 14^3}$$

$$b, \frac{5 \cdot 4^{15} \cdot 9^9 - 4 \cdot 3^{20} \cdot 8^9}{5 \cdot 2^9 \cdot 6^{19} - 7 \cdot 2^{29} \cdot 27^6}$$

$$c, \frac{4^5 \cdot 9^4 - 2 \cdot 6^9}{2^{10} \cdot 3^8 + 6^8 \cdot 20}$$

HD:

$$a, \text{ Ta có: } \frac{2^{12} \cdot 3^5 - 4^6 \cdot 9^2}{(2^2 \cdot 3)^6 + 8^4 \cdot 3^5} - \frac{5^{10} \cdot 7^3 - 25^5 \cdot 49^2}{(125 \cdot 7)^3 + 5^9 \cdot 14^3}$$

$$= \frac{2^{12} \cdot 3^5 - 2^{12} \cdot 3^4}{2^{12} \cdot 3^6 + 2^{12} \cdot 3^5} - \frac{5^{10} \cdot 7^3 - 5^{10} \cdot 7^4}{5^9 \cdot 7^3 + 5^9 \cdot 7^3 \cdot 2^3} = \frac{2^{12} \cdot 3^4 (3-1)}{2^{12} \cdot 3^5 (3+1)} - \frac{5^{10} \cdot 7^3 (1-7)}{5^9 \cdot 7^3 (1+8)} = \frac{5 \cdot (-6)}{9} = \frac{-10}{3}$$

$$b, \text{ Ta có: } \frac{5 \cdot 4^{15} \cdot 9^9 - 4 \cdot 3^{20} \cdot 8^9}{5 \cdot 2^9 \cdot 6^{19} - 7 \cdot 2^{29} \cdot 27^6} = \frac{5 \cdot 2^{30} \cdot 3^{18} - 3^{20} \cdot 2^{29}}{5 \cdot 2^{28} \cdot 3^{19} - 7 \cdot 2^{29} \cdot 3^{18}} = \frac{2^{29} \cdot 3^{18} (5 \cdot 2 - 3^2)}{2^{28} \cdot 3^{18} (5 \cdot 3 - 7 \cdot 2)} = \frac{2}{1} = 2$$

$$c, \text{ Ta có: } \frac{4^5 \cdot 9^4 - 2 \cdot 6^9}{2^{10} \cdot 3^8 + 6^8 \cdot 20} = \frac{2^{10} \cdot 3^8 - 2^{10} \cdot 3^9}{2^{10} \cdot 3^8 + 2^{10} \cdot 3^8 \cdot 5} = \frac{2^{10} \cdot 3^8 (1-3)}{2^{10} \cdot 3^8 (1+5)} = \frac{-2}{6} = \frac{-1}{3}$$

Bài 5: Thực hiện phép tính:

$$a, \frac{15 \cdot 4^{12} \cdot 9^7 - 4 \cdot 3^{15} \cdot 8^8}{19 \cdot 2^{24} \cdot 3^{14} - 6 \cdot 4^{12} \cdot 27^5}$$

$$b, \frac{3^{15} \cdot 2^{22} + 6^{16} \cdot 4^4}{2 \cdot 9^9 \cdot 8^7 - 7 \cdot 27^5 \cdot 2^{23}}$$

$$c, \frac{16^3 \cdot 3^{10} + 120 \cdot 6^9}{4^6 \cdot 3^{12} + 6^{11}}$$

HD :

$$a, \text{ Ta có: } \frac{15 \cdot 4^{12} \cdot 9^7 - 4 \cdot 3^{15} \cdot 8^8}{19 \cdot 2^{24} \cdot 3^{14} - 6 \cdot 4^{12} \cdot 27^5} = \frac{5 \cdot 2^{24} \cdot 3^{15} - 2^{26} \cdot 3^{15}}{19 \cdot 2^{24} \cdot 3^{14} - 2^{25} \cdot 3^{16}} = \frac{2^{24} \cdot 3^{15} (5 - 2^2)}{2^{24} \cdot 3^{14} (19 - 2 \cdot 3^2)} = \frac{3}{1} = 3$$

$$b, \text{ Ta có: } \frac{3^{15} \cdot 2^{22} + 6^{16} \cdot 4^4}{2 \cdot 9^9 \cdot 8^7 - 7 \cdot 27^5 \cdot 2^{23}} = \frac{3^{15} \cdot 2^{22} + 2^{24} \cdot 3^{16}}{2^{22} \cdot 3^{18} - 7 \cdot 3^{15} \cdot 2^{23}} = \frac{2^{22} \cdot 3^{15} (1 + 2^2 \cdot 3)}{2^{22} \cdot 3^{15} (3^3 - 7 \cdot 2)} = \frac{13}{-5} = \frac{-13}{5}$$

$$c, \text{ Ta có: } \frac{(2^4)^3 \cdot 3^{10} + 2^3 \cdot 3 \cdot 5 \cdot (2 \cdot 3)^9}{(2^2)^6 \cdot 3^{12} + (2 \cdot 3)^{11}} = \frac{2^{12} \cdot 3^{10} + 2^{12} \cdot 3^{10} \cdot 5}{2^{12} \cdot 3^{12} + 2^{11} \cdot 3^{11}} = \frac{2^{12} \cdot 3^{10} (1+5)}{2^{11} \cdot 3^{11} (2 \cdot 3 + 1)} = \frac{2 \cdot 6}{3 \cdot 7} = \frac{12}{21}$$

Bài 6: Thực hiện phép tính :

$$\text{a, } A = \frac{2^{12} \cdot 3^5 - 4^6 \cdot 9^2}{(2^2 \cdot 3)^6 + 8^4 \cdot 3^5} - \frac{5^{10} \cdot 7^3 - 25^5 \cdot 49^2}{(125 \cdot 7)^3 + 5^9 \cdot 14^3}$$

$$\text{b, } \frac{5 \cdot 4^{15} \cdot 9^9 - 4 \cdot 3^{20} \cdot 8^9}{5 \cdot 2^{10} \cdot 6^{12} - 7 \cdot 2^{29} \cdot 27^6}$$

Bài 7: Thực hiện phép tính:

$$\text{a, } A = \frac{2^{12} \cdot 3^5 - 4^6 \cdot 9^2}{(2^2 \cdot 3)^6 + 8^4 \cdot 3^5}$$

$$\text{b, } B = \frac{4^5 \cdot 9^4 - 2 \cdot 6^9}{2^{10} \cdot 3^8 + 6^8 \cdot 20}$$

Bài 8: Thực hiện phép tính :

$$\text{a, } \frac{3^{10} \cdot 11 + 3^{10} \cdot 5}{3^9 \cdot 2^4}$$

$$\text{b, } \frac{2^{10} \cdot 13 + 2^{10} \cdot 65}{2^8 \cdot 104}$$

Bài 9: Thực hiện phép tính:

$$\text{a, } \frac{2^{30} \cdot 5^7 + 2^{13} \cdot 5^{27}}{2^{27} \cdot 5^7 + 2^{10} \cdot 5^{27}}$$

$$\text{b, } \frac{(-3)^6 \cdot 15^5 + 9^3 \cdot (-15)^6}{(-3)^{10} \cdot 5^5 \cdot 2^3}$$

Bài 10: Thực hiện phép tính:

$$\text{a, } \frac{5^2 \cdot 6^{11} \cdot 16^2 + 6^2 \cdot 12^6 \cdot 15^2}{2 \cdot 6^{12} \cdot 10^4 - 81^2 \cdot 960^3}$$

$$\text{b, } A = \frac{2^{19} \cdot 27^3 \cdot 5 - 15 \cdot (-4)^9 \cdot 9^4}{6^9 \cdot 2^{10} - (-12)^{10}}$$

Bài 11: Thực hiện phép tính:

$$\text{a, } \left[ \frac{(0,8)^5}{(0,4)^6} + \frac{2^{15} \cdot 9^4}{6^6 \cdot 8^3} \right] : \frac{45^{10} \cdot 5^{20}}{75^{15}}$$

$$\text{b, } A = \frac{2 \cdot 5^{22} - 9 \cdot 5^{21}}{25^{10}} : \frac{5(3 \cdot 7^{15} - 19 \cdot 7^{14})}{7^{16} + 3 \cdot 7^{15}}$$

$$\text{Bài 12: Tính giá trị của biểu thức: } A = \frac{\left(\frac{2}{5}\right)^7 \cdot 5^7 + \left(\frac{9}{4}\right)^3 : \left(\frac{3}{16}\right)^3}{2^7 \cdot 5^7 + 512}$$

$$\text{Bài 13: Tính biểu thức: } B = \sqrt{2 \frac{14}{25}} - \sqrt{1,21} + \frac{0,6 - \frac{3}{7} - \frac{3}{13}}{1,2 - \frac{6}{7} - \frac{6}{13}} : \frac{-1 \frac{1}{6} + 0,875 - 0,7}{\frac{1}{3} - 0,25 + 0,2}$$

$$\text{Bài 14: Tính biểu thức: } A = -84 \left( \frac{-1}{3} + \frac{1}{4} - \frac{1}{7} \right) + 51 \cdot (-37) - 51 \cdot (-137) + \frac{3^3 \cdot 12^6}{(27 \cdot 4^2)^3}$$

Bài 15: Thực hiện phép tính:

$$\text{a, } 1024 : (17 \cdot 2^5 + 15 \cdot 2^5)$$

$$\text{b, } 5^3 \cdot 2 + (23 + 4^0) : 2^3$$

c,

$$(5 \cdot 3^5 + 17 \cdot 3^4) : 6^2$$

**HD :**

$$\text{a, Ta có: } 1024 : (17 \cdot 2^5 + 15 \cdot 2^5) = 2^{10} : [2^5 (17 + 15)] = 2^{10} : (2^5 \cdot 2^5) = 1$$

$$\text{b, Ta có: } 5^3 \cdot 2 + (23 + 4^0) : 2^3 = 5^3 \cdot 2 + 24 : 2^3 = 250 + 3 = 253$$

$$\text{c, Ta có: } (5 \cdot 3^5 + 17 \cdot 3^4) : 6^2 [3^4 (3 \cdot 5 + 17)] : 3^2 \cdot 2^2 = (3^4 \cdot 32) : 3^2 \cdot 2^2 = \frac{3^4 \cdot 2^5}{3^2 \cdot 2^2} = 9 \cdot 8 = 72$$

Bài 16: Thực hiện phép tính:

$$\text{a, } (10^2 + 11^2 + 12^2) : (13^2 + 14^2)$$

$$\text{b, } (2^3 \cdot 9^4 + 9^3 \cdot 45) : (9^2 \cdot 10 - 9^2)$$

**HD :**

$$\text{a, Ta có: } (10^2 + 11^2 + 12^2) : (13^2 + 14^2) = (100 + 121 + 144) : (169 + 196) = 365 : 365 = 1$$

c Ta có :  $(2^3 \cdot 9^4 + 9^3 \cdot 45) : (9^2 \cdot 10 - 9^2) =$   
 $(2^3 \cdot 3^8 + 3^{11} \cdot 5) : (3^2 \cdot 10 + 3^2) = \frac{3^8(8 + 3^3 \cdot 5)}{3^2 \cdot 11} = \frac{3^6 \cdot 143}{11} = 13 \cdot 3^6$

Bài 17: Thực hiện phép tính:

a,  $[(3^{14} \cdot 69 + 3^{14} \cdot 12) : 3^{16} - 7] : 2^4$                       b,  $24^4 : 3^4 - 32^{12} : 16^{12}$

**HD :**

a, Ta có:  
 $[(3^{14} \cdot 69 + 3^{14} \cdot 12) : 3^{16} - 7] : 2^4$   
 $= [(3^{14} \cdot 3 \cdot 23 + 3^{14} \cdot 3 \cdot 2^2) : 3^{16} - 7] : 2^4 = [(3^{15} \cdot 23 + 3^{15} \cdot 4) : 3^{16} - 7] : 2^4$   
 $= [3^{15} \cdot 27 : 3^{16} - 7] : 2^4 = (9 - 7) : 2^4 = \frac{1}{2^3}$

b, Ta có:  $24^4 : 3^4 - 32^{12} : 16^{12} = (24 : 3)^4 - (32 : 16)^{12} = 8^4 - 2^{12} = 2^{12} - 2^{12} = 0$

Bài 18: Thực hiện phép tính :

a,  $2010^{2010} (7^{10} : 7^8 - 3 \cdot 2^4 - 2^{2010} : 2^{2010})$                       b,  $(2^{100} + 2^{101} + 2^{102}) : (2^{97} + 2^{98} + 2^{99})$

**HD :**

a, Ta có :  $2010^{2010} (7^{10} : 7^8 - 3 \cdot 2^4 - 2^{2010} : 2^{2010}) = 2010^{2010} (49 - 3 \cdot 16 - 1) = 0$

Bài 19: Tính:  $A = \frac{-\frac{11}{2} + \frac{-5}{1 - \frac{4}{3}}}{\frac{3}{5} - \frac{\frac{5}{4} - \frac{2}{3}}{\frac{5}{5} - \frac{2}{3}}}$                        $B = \frac{1 - \frac{1}{1 + \frac{4}{3}}}{2 + \frac{1}{3} - \frac{3}{7}}$

Bài 20: Thực hiện phép tính :  $\frac{45}{19} - \left( \frac{1}{2} + \left( \frac{1}{3} + \left( \frac{1}{4} \right)^{-1} \right)^{-1} \right)^{-1}$

**HD :**

$= \frac{45}{19} - \frac{1}{\frac{1}{2} + \frac{1}{\frac{1}{3} + 4}} = \frac{45}{19} - \frac{26}{19} = 1$

Bài 21: Rút gọn :  $A = \left( \frac{3}{2} - \frac{2}{5} + \frac{1}{10} \right) : \left( \frac{3}{2} - \frac{2}{3} + \frac{1}{12} \right)$

## Dạng 2 : TÍNH ĐƠN GIẢN

Bài 1: Thực hiện phép tính: 
$$\frac{\frac{1}{2003} + \frac{1}{2004} - \frac{1}{2005}}{5} - \frac{\frac{2}{2002} + \frac{2}{2003} - \frac{2}{2004}}{3}$$

HD:

Ta có: 
$$\frac{\frac{1}{2003} + \frac{1}{2004} - \frac{1}{2005}}{5} - \frac{\frac{2}{2002} + \frac{2}{2003} - \frac{2}{2004}}{3} =$$

$$\frac{\frac{1}{2003} + \frac{1}{2004} - \frac{1}{2005}}{5} - \frac{2\left(\frac{1}{2002} + \frac{1}{2003} - \frac{1}{2004}\right)}{3} = \frac{1}{5} - \frac{2}{3} = \frac{-7}{15}$$

Bài 2: Thực hiện phép tính: 
$$\left( \frac{1,5+1-0,75}{2,5+\frac{5}{3}-1,25} + \frac{0,375-0,3+\frac{3}{11}+\frac{3}{12}}{-0,625+0,5-\frac{5}{11}-\frac{5}{12}} \right) : \frac{1890}{2005} + 115$$

HD:

Ta có: 
$$\left( \frac{1,5+1-0,75}{2,5+\frac{5}{3}-1,25} + \frac{0,375-0,3+\frac{3}{11}+\frac{3}{12}}{-0,625+0,5-\frac{5}{11}-\frac{5}{12}} \right) : \frac{1890}{2005} + 115 =$$

$$= \left( \frac{\frac{3}{2} + \frac{3}{3} - \frac{3}{4}}{\frac{5}{2} + \frac{5}{3} - \frac{5}{4}} + \frac{\frac{3}{8} - \frac{3}{10} + \frac{3}{11} + \frac{3}{12}}{\frac{-5}{8} + \frac{5}{10} - \frac{5}{11} - \frac{5}{12}} \right) : \frac{378}{401} + 115 =$$

$$\left( \frac{3}{5} + \frac{3}{-5} \right) : \frac{378}{401} + 115 = 0 : \frac{378}{401} + 115 = 115$$

Bài 3: Thực hiện phép tính: 
$$\frac{\frac{1}{9} - \frac{1}{7} - \frac{1}{11}}{4} + \frac{0,6 - \frac{3}{25} - \frac{3}{125} - \frac{3}{625}}{\frac{4}{5} - 0,16 - \frac{4}{125} - \frac{4}{625}}$$

HD:

Ta có: 
$$\frac{\frac{1}{9} - \frac{1}{7} - \frac{1}{11}}{4} + \frac{0,6 - \frac{3}{25} - \frac{3}{125} - \frac{3}{625}}{\frac{4}{5} - 0,16 - \frac{4}{125} - \frac{4}{625}} = \frac{1}{4} + \frac{3}{4} = 1$$

Bài 4: Thực hiện phép tính: 
$$564 \cdot \left( \frac{12 + \frac{12}{7} - \frac{12}{25} - \frac{12}{71}}{4 + \frac{4}{7} - \frac{4}{25} - \frac{4}{71}} : \frac{3 + \frac{3}{13} + \frac{3}{19} + \frac{3}{101}}{5 + \frac{5}{13} + \frac{5}{19} + \frac{5}{101}} \right)$$

HD: