

เลขยกกำลัง

สมบัติของเลขยกกำลัง

$$1. a^m \times a^n = \dots\dots a \dots\dots$$

จงเขียนจำนวนต่อไปนี้ให้อยู่ในรูปของเลขยกกำลังที่มีเลขชี้กำลังเป็นจำนวนเต็มมากกว่า 1

1. $2^2 \times 2^5 = \dots\dots 2 \dots\dots = \dots\dots 2 \dots\dots$
2. $2^6 \times 2^8 = \dots\dots 2 \dots\dots = \dots\dots 2 \dots\dots$
3. $3^4 \times 3^7 = \dots\dots 3 \dots\dots = \dots\dots 3 \dots\dots$
4. $3^{11} \times 3^9 = \dots\dots 3 \dots\dots = \dots\dots 3 \dots\dots$
5. $5 \times 5^6 = \dots\dots 5 \dots\dots = \dots\dots 5 \dots\dots$
6. $5^{12} \times 5^{18} = \dots\dots 5 \dots\dots = \dots\dots 5 \dots\dots$
7. $2^4 \times 2^5 \times 2^6 = \dots\dots = \dots\dots$
8. $5^7 \times 5^{11} \times 5^6 = \dots\dots = \dots\dots$
9. $(-5)^4 \times (-5)^6 \times (-5)^8 = \dots\dots = \dots\dots$
10. $(-7) \times (-7)^3 \times (-7)^5 = \dots\dots = \dots\dots$
11. $(-11)^{15} \times (-11)^5 \times (-11)^8 = \dots\dots = \dots\dots$
12. $\left(\frac{1}{3}\right)^6 \times \left(\frac{1}{3}\right)^5 \times \left(\frac{1}{3}\right)^9 = \dots\dots = \dots\dots$
13. $(0.7)^5 \times (0.7)^5 \times (0.7)^8 = \dots\dots = \dots\dots$
14. $(-0.2)^6 \times (-0.2)^{10} \times (-0.2)^3 = \dots\dots = \dots\dots$
15. $(-0.5)^9 \times (-0.5)^4 \times (-0.5)^3 = \dots\dots = \dots\dots$

ถ้า m และ n เป็นจำนวนเต็มบวก จงเขียนจำนวนต่อไปนี้ให้อยู่ในรูปของเลขยกกำลังที่มีเลขชี้กำลังเป็นจำนวนเต็มมากกว่า 1

1. $x^2 \cdot x^{2m} = \dots\dots x \dots\dots = \dots\dots x \dots\dots$
2. $x^4 \cdot x^{3m} = \dots\dots x \dots\dots = \dots\dots x \dots\dots$
3. $x^m \cdot x = \dots\dots x \dots\dots = \dots\dots x \dots\dots$
4. $x^{5m} \cdot x^2 = \dots\dots x \dots\dots = \dots\dots x \dots\dots$
7. $a^{2n} \cdot a^{6m} \cdot a = \dots\dots a \dots\dots = \dots\dots a \dots\dots$
8. $a^{3n} \cdot a^{7m} = \dots\dots = \dots\dots$
9. $b^2 \cdot b^n \cdot b^{3n} = \dots\dots = \dots\dots$
10. $b^{5m} \cdot b^{2m} \cdot b^{3m} = \dots\dots = \dots\dots$

$$a^m \div a^n = \dots\dots\dots a \dots\dots\dots$$

จงเขียนจำนวนต่อไปนี้ให้อยู่ในรูปของเลขยกกำลังที่มีเลขชี้กำลังเป็นจำนวนเต็มมากกว่า 1

1. $\frac{2^5}{2^2} = \dots\dots\dots$ 2. $\frac{3^{13}}{3^5} = \dots\dots\dots$

3. $\frac{5^4 \times 5^8}{5^6} = \dots\dots\dots$ 4. $\frac{7^{12} \times 7^{10} \times 7^8}{7^9 \times 7^5} = \dots\dots\dots$

5. $\frac{(-3)^{10} \times (-3)^9}{(-3)^7} = \dots\dots\dots$

6. $\frac{(-5)^5 \times (-5)^9 \times (-5)^{11}}{(-5)^8 \times (-5)^{10}} = \dots\dots\dots$

7. $\frac{(0.3)^{16} \times (0.3)^{10} \times (0.3)^8}{(0.3)^6 \times (0.3)^{12}} = \dots\dots\dots$

8. $\frac{(0.5)^5 \times (0.5)^{17} \times (0.5)^8}{(0.5)^{12} \times (0.5)^6} = \dots\dots\dots$

9. $\frac{(-0.7)^{10} \times (-0.7)^8 \times (-0.7)^6}{(-0.7)^4 \times (-0.7)^7 \times (-0.7)^9} = \dots\dots\dots$

10. $\frac{(-0.1)^{20}}{(-0.1)^6 \times (-0.1)^4 \times (-0.1)^7} = \dots\dots\dots$

11. $\frac{\left(\frac{3}{4}\right)^6 \times \left(\frac{3}{4}\right)^8 \times \left(\frac{3}{4}\right)^{10}}{\left(\frac{3}{4}\right)^{11} \times \left(\frac{3}{4}\right)^5} = \dots\dots\dots$

12. $\frac{\left(-\frac{1}{4}\right)^{10} \times \left(-\frac{1}{4}\right)^{20} \times \left(-\frac{1}{4}\right)^{30}}{\left(-\frac{1}{4}\right)^5 \times \left(-\frac{1}{4}\right)^{15} \times \left(-\frac{1}{4}\right)^{25}} = \dots\dots\dots$