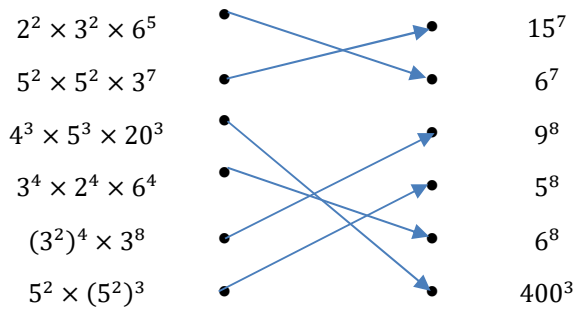
1.

1.1. 6^5
1.2. $7^6\ (ou\ 49^3)$
1.3. 2^{10}
1.4. 20^2
1.5. 3^{10}
1.6. 60^4
1.7. 100^2
1.8. 3^{23}
1.9. 2^5
1.10. 6^5
1.11. 10^8
1.12. 9^{12}
1.13. 2^4
1.14. $2{,}1^4$
1.15. 1
1.16. $7{,}1^{19}$
1.17. $\left(\frac{1}{2}\right)^{14}$
1.18. $0{,}25^2$
1.19. $2{,}65^{23}$
1.20. 1
1.21. $3{,}6^{24}$
1.22. $0{,}05^{16}$
1.23. $\left(\frac{1}{5}\right)^{15}$
1.24. 4^8

2.

2.1. $3^2 \times 3^4 = 3^6$
2.2. $4^3 \times 4^6 \times 4^2 = 4^{11}$
2.3. $2^3 \times 2^7 = 2^{10}$
2.4. $5^5 \times 5^2 \times 5^2 = 5^9$
2.5. $10^5 \times 10^{20} = 10^{25}$
2.6. $2^5 \times 2^5 \times 2^2\ (por\ exemplo)$
2.7. $2^{12} = (2^2)^4$
2.8. $3^9 = (3^3)^3$
2.9. $4^8 = (4^2)^4$
2.10. $5^{16} = (5^8)^2$
2.11. $\left(\frac{13}{5}\right)^{12} \times \left(\frac{13}{5}\right)^{12} = \left(\frac{13}{5}\right)^{24}$
2.12. $4{,}67^2 \times 4{,}67^7 = 4{,}67^9$
2.13. $0{,}7^2 \times 0{,}7^2 \times 0{,}7^4 = 0{,}7^8$
2.14. $\left(\frac{3}{7}\right)^7 \times \left(\frac{3}{7}\right)^8 = \left(\frac{3}{7}\right)^{15}$
2.15. $8{,}7^{100} = 8^{10^2}$
2.16. $8{,}7^{100} = (8{,}7^{10})^{10}$
2.17. $0{,}8^{12} = (0{,}8^2)^6\ (por\ exemplo)$
2.18. $\left(\frac{4}{9}\right)^{34} \times \left(\frac{4}{9}\right)^{43} = \left(\frac{4}{9}\right)^{77}$

3.



4.

4.1. V
4.2. V
4.3. F
4.4. F
4.5. V
4.6. V
4.7. F
4.8. F
4.9.

5.

5.1. 6^2
5.2. 6^4
5.3. 6^3
5.4. 6^5
5.5. 6^6
5.6. 6^9

6.

6.1. 5^6
6.2. $\left(\frac{2}{3}\right)^4$
6.3. $0{,}2^{10}$
6.4. 2^8
6.5. $0{,}1^9$
6.6. $\left(\frac{2}{5}\right)^{15}$

7.

7.1. 70^{14}
7.2. $\left(\frac{1}{2}\right)^6$
7.3. 3^{20}
7.4. 1
7.5. $\left(\frac{3}{10}\right)^7$
7.6. 7^7

8. A potência é $\left(\frac{5}{2}\right)^{20}$