

Esercizi sulle proprietà delle potenze con le frazioni

Prodotto di potenze con lo stesse esponente (quarta proprietà)

$$1. \left(\frac{1}{2}\right)^2 \cdot \left(\frac{1}{3}\right)^2 =$$

$$2. \left(\frac{2}{3}\right)^2 \cdot \left(\frac{1}{5}\right)^2 =$$

$$3. \left(\frac{1}{4}\right)^3 \cdot \left(\frac{1}{3}\right)^3 =$$

$$4. \left(\frac{2}{5}\right)^3 \cdot \left(\frac{1}{3}\right)^3 =$$

$$5. \left(\frac{3}{4}\right)^1 \cdot \left(\frac{1}{2}\right)^1 =$$

$$6. \left(\frac{4}{3}\right)^3 \cdot \left(\frac{5}{3}\right)^3 =$$

$$7. \left(\frac{8}{3}\right)^4 \cdot \left(\frac{3}{4}\right)^4 =$$

$$8. \left(\frac{7}{5}\right)^2 \cdot \left(\frac{5}{14}\right)^2 =$$

$$9. \left(\frac{5}{4}\right)^2 \cdot \left(\frac{4}{7}\right)^2 =$$

$$10. \left(\frac{10}{3}\right)^2 \cdot \left(\frac{1}{15}\right)^2 =$$

$$11. \left(\frac{11}{3}\right)^3 \cdot \left(\frac{9}{11}\right)^3 =$$

$$12. \left(\frac{12}{7}\right)^4 \cdot \left(\frac{7}{24}\right)^4 =$$

$$13. \left(\frac{15}{31}\right)^5 \cdot \left(\frac{31}{5}\right)^5 =$$

$$14. \left(\frac{7}{23}\right)^2 \cdot \left(\frac{46}{28}\right)^2 =$$

$$15. \left(\frac{1}{51}\right)^6 \cdot \left(\frac{17}{3}\right)^6 =$$

$$16. \left(\frac{28}{9}\right)^7 \cdot \left(\frac{27}{14}\right)^7 =$$

$$17. \left(\frac{50}{100}\right)^9 \cdot \left(\frac{10}{20}\right)^9 =$$

$$18. \left(\frac{18}{42}\right)^7 \cdot \left(\frac{14}{9}\right)^7 =$$

$$19. \left(\frac{22}{47}\right)^0 \cdot \left(\frac{47}{44}\right)^0 =$$

$$20. \left(\frac{19}{17}\right)^2 \cdot \left(\frac{34}{57}\right)^5 =$$

$$21. \left(\frac{10}{44}\right)^3 \cdot \left(\frac{66}{40}\right)^3 =$$

$$22. \left(\frac{105}{3}\right)^1 \cdot \left(\frac{9}{33}\right)^1 =$$

$$23. \left(\frac{25}{40}\right)^3 \cdot \left(\frac{20}{50}\right)^3 =$$

$$24. \left(\frac{8}{69}\right)^3 \cdot \left(\frac{23}{24}\right)^3 =$$

25. $\left(\frac{81}{9}\right)^6 \cdot \left(\frac{2}{18}\right)^6 =$
26. $\left(\frac{25}{44}\right)^0 \cdot \left(\frac{22}{50}\right)^0 =$
27. $\left(\frac{71}{42}\right)^2 \cdot \left(\frac{21}{142}\right)^2 =$
28. $\left(\frac{90}{39}\right)^{12} \cdot \left(\frac{13}{30}\right)^{12} =$
29. $\left(\frac{70}{49}\right)^{21} \cdot \left(\frac{7}{10}\right)^{21} =$
30. $\left(\frac{95}{50}\right)^{18} \cdot \left(\frac{10}{19}\right)^{18} =$
31. $\left(\frac{1}{3}\right)^2 \cdot \left(\frac{2}{3}\right)^2 \cdot \left(\frac{3}{4}\right)^2 =$
32. $\left(\frac{3}{5}\right)^3 \cdot \left(\frac{10}{7}\right)^3 \cdot \left(\frac{14}{2}\right)^3 =$
33. $\left(\frac{2}{5}\right)^0 \cdot \left(\frac{7}{3}\right)^0 \cdot \left(\frac{8}{9}\right)^0 =$
34. $\left(\frac{5}{9}\right)^4 \cdot \left(\frac{20}{15}\right)^4 \cdot \left(\frac{27}{10}\right)^4 =$
35. $\left(\frac{15}{29}\right)^8 \cdot \left(\frac{58}{15}\right)^8 \cdot \left(\frac{1}{2}\right)^8 =$
36. $\left(\frac{1}{2}\right)^4 \cdot \left(\frac{2}{3}\right)^4 \cdot \left(\frac{3}{4}\right)^4 =$
37. $\left(\frac{25}{30}\right)^5 \cdot \left(\frac{36}{35}\right)^5 \cdot \left(\frac{14}{18}\right)^5 =$
38. $\left(\frac{55}{49}\right)^7 \cdot \left(\frac{14}{11}\right)^7 \cdot \left(\frac{7}{5}\right)^7 =$
39. $\left(\frac{100}{45}\right)^3 \cdot \left(\frac{9}{20}\right)^3 \cdot \left(\frac{1}{3}\right)^3 =$
40. $\left(\frac{29}{54}\right)^4 \cdot \left(\frac{4}{3}\right)^4 \cdot \left(\frac{27}{58}\right)^4 =$
41. $\left(\frac{78}{39}\right)^{15} \cdot \left(\frac{121}{11}\right)^{15} \cdot \left(\frac{1}{22}\right)^{15} =$
42. $\left(\frac{85}{90}\right)^1 \cdot \left(\frac{80}{75}\right)^1 \cdot \left(\frac{13}{12}\right)^1 =$
43. $\left(\frac{81}{28}\right)^2 \cdot \left(\frac{14}{77}\right)^2 \cdot \left(\frac{66}{27}\right)^2 =$
44. $\left(\frac{48}{23}\right)^{12} \cdot \left(\frac{69}{16}\right)^{12} \cdot \left(\frac{2}{18}\right)^{12} =$
45. $\left(\frac{125}{41}\right)^{15} \cdot \left(\frac{4}{15}\right)^{15} \cdot \left(\frac{123}{100}\right)^{15} =$
46. $\left(\frac{84}{300}\right)^3 \cdot \left(\frac{420}{21}\right)^3 \cdot \left(\frac{25}{14}\right)^3 =$
47. $\left(\frac{5}{3}\right)^{14} \cdot \left(\frac{6}{5}\right)^{14} \cdot \left(\frac{4}{7}\right)^{14} \cdot \left(\frac{14}{16}\right)^{14} =$
48. $\left(\frac{9}{13}\right)^5 \cdot \left(\frac{6}{18}\right)^5 \cdot \left(\frac{26}{3}\right)^5 \cdot \left(\frac{3}{2}\right)^5 =$
49. $\left(\frac{14}{15}\right)^1 \cdot \left(\frac{6}{5}\right)^1 \cdot \left(\frac{15}{42}\right)^1 \cdot \left(\frac{45}{18}\right)^1 =$
50. $\left(\frac{3}{4}\right)^0 \cdot \left(\frac{8}{9}\right)^0 \cdot \left(\frac{5}{12}\right)^0 \cdot \left(\frac{0}{7}\right)^0 =$