

Aplicant les propietats de les potències expressa com una sola potència:

$$1. \quad 3^3 \cdot 3^{-1} = \underline{\hspace{2cm}} \quad \text{sol: } 3^2$$

$$2. \quad 5^{-3} \cdot 5^3 = \underline{\hspace{2cm}} \quad \text{sol: } 1$$

$$3. \quad 7^{-3} \cdot 7^{-3} = \underline{\hspace{2cm}} \quad \text{sol: } 7^{-6}$$

$$4. \quad 3^{-2} \cdot 3^2 \cdot 3^{-2} = \underline{\hspace{2cm}} \quad \text{sol: } 3^{-2}$$

$$5. \quad 3^{-3} \cdot 3^3 \cdot 3^3 = \underline{\hspace{2cm}} \quad \text{sol: } 3^3$$

$$6. \quad 6^{-2} \cdot 6^{-3} \cdot 6^2 = \underline{\hspace{2cm}} \quad \text{sol: } 6^{-3}$$

$$7. \quad \frac{(-2)^2}{(-2)^{-2}} = \underline{\hspace{2cm}} \quad \text{sol: } (-2)^4$$

$$8. \quad \frac{3^2}{3^{-4}} = \underline{\hspace{2cm}} \quad \text{sol: } 3^6$$

$$9. \quad \frac{3^2}{3^{-3}} = \underline{\hspace{2cm}} \quad \text{sol: } 3^5$$

$$10. \quad \left( (-7)^3 \right)^{-5} = \underline{\hspace{2cm}} \quad \text{sol: } (-7)^{-15}$$

$$11. \quad \left( (-6)^2 \right)^{-2} = \underline{\hspace{2cm}} \quad \text{sol: } (-6)^{-4}$$

$$12. \quad \left( 3^3 \right)^2 = \underline{\hspace{2cm}} \quad \text{sol: } 3^6$$

$$13. \quad \left( \left( (-2)^5 \right)^{-5} \right)^2 = \underline{\hspace{2cm}} \quad \text{sol: } (-2)^{-50}$$

$$14. \quad \left( \left( (-5)^{-4} \right)^2 \right)^{-4} = \underline{\hspace{2cm}} \quad \text{sol: } (-5)^{32}$$

$$15. \quad \left( \left( (-3)^5 \right)^4 \right)^4 = \underline{\hspace{2cm}} \quad \text{sol: } (-3)^{80}$$

$$16. \quad \frac{(-5)^{-3}}{(-5)^{-2} \cdot (-5)^{-3}} \cdot (-5)^{-5} = \underline{\hspace{2cm}} \quad \text{sol: } (-5)^{-3}$$

$$17. \quad \frac{5^2 \cdot 5^{-2}}{5^2} = \underline{\hspace{2cm}} \quad \text{sol: } 5^{-2}$$

$$18. \quad \frac{(-5)^{-1} \cdot (-5)^5}{(-5)^2} = \underline{\hspace{2cm}} \quad \text{sol: } (-5)^2$$

$$19. \quad \left( \frac{\left( (-5)^{-2} \right)^2}{(-5)^3} \right)^4 \cdot \left( (-5)^{-1} \cdot (-5)^{-4} \right)^2 = \underline{\hspace{2cm}} \quad \text{sol: } (-5)^{-38}$$

$$20. \quad \left( \frac{\left( 6^{-2} \right)^2}{6^{-3}} \right)^{-5} \cdot \left( 6 \cdot 6^{-2} \right)^{-3} = \underline{\hspace{2cm}} \quad \text{sol: } 6^8$$

$$21. \quad \frac{\left( 3^3 \cdot 3 \right)^5}{\left( 3^3 \right)^3 \cdot 3^5} = \underline{\hspace{2cm}} \quad \text{sol: } 3^{24}$$