



# חזקות - פתרונות

1.  $19^0 = 1$

2.  $24^1 = 24$

3.  $2^4 \cdot 2^6 = 2^{4+6} = 2^{10}$

4.  $12^{\frac{1}{4}} \cdot 12^{\frac{7}{4}} = 12^{\frac{1+7}{4}} = 12^{\frac{8}{4}} = 12^2 = 144$

5.  $\frac{4^9}{4^6} = 4^{9-6} = 4^3 = 64$

6.  $\frac{11^{\frac{7}{5}}}{11^{\frac{2}{5}}} = 11^{\frac{7-2}{5}} = 11^{\frac{5}{5}} = 11^1 = 11$

7.  $(3^2)^2 = 3^{2 \cdot 2} = 3^4 = 81$

8.  $(15^{\frac{1}{4}})^8 = 15^{\frac{1}{4} \cdot 8} = 15^{\frac{8}{4}} = 15^2 = 225$

9.  $\left(2\frac{1}{2}\right)^2 \cdot 4^2 = \left(2\frac{1}{2} \cdot 4\right)^2 = 10^2 = 100$