

## בוחן כללי חזקות

1.  $5^2 \cdot 5^3 =$

7.  $\frac{(3x)^5}{(3x)} =$

$$(ab)^n = a^n \cdot b^n$$

$$\frac{a^n}{a^p} = a^{n-p}$$

2.  $2^{21} \cdot 2^8 \cdot 2 =$

8.  $\frac{-k \cdot (-k)^4}{(-k)^3} =$

$$(a^n)^p = a^{n \cdot p}$$

$$a^n \cdot a^p = a^{n+p}$$

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

9.  $(2^3)^4 \cdot 2^3 =$

4.  $a^2 \cdot a^3 =$

10.  $\frac{a^3 \cdot (a^4)^2}{(a^2)^3} =$

5.  $\frac{(-2)^3}{(-2)^2} =$

11.  $\frac{x^4 \cdot y^4 \cdot z^4}{(xyz)^4} =$

6.  $\frac{5^{23}}{5^{20}} =$

12.  $\frac{(a^3 \cdot b^4 \cdot c^5)^3}{(a \cdot b^3 \cdot c^2)^3} =$

7.  $\left(\frac{a^5 b^7}{a^3 b^6}\right)^4 =$

13.  $\frac{b^4}{b^4} =$

פתרו:

$$\frac{(x^2)^5 \cdot (y^6)^6}{(xy)^3 \cdot x^2 \cdot y^5} =$$

$$\frac{x^4 y^5 x^2 y^2}{x^3 y^4} =$$