



















Waar of niet waar ?

Namen _____

	Eerste indruk	controle
A. $3^{\frac{1}{2}} = 1\frac{1}{2}$	-----
B. $\sqrt[4]{25} = 5^{\frac{1}{2}}$	-----
C. $\sqrt{-5^2} = 5$	-----
D. $7^{\frac{1}{2}} \cdot 7^{\frac{1}{2}} = 49^{\frac{1}{2}}$	-----
E. $\left(\frac{1}{2}\right)^{\frac{1}{2}} = \frac{1}{4}$	-----
F. $\left(\frac{1}{5}\right)^{-5} = 25$	-----
G. $\sqrt[4]{8} = 2$	-----
H. $\sqrt[3]{7} = 7^{\frac{1}{3}}$	-----
I. $(\sqrt{5})^{-2} = \frac{1}{5}$	-----
J. $\left(\sqrt{\frac{1}{2}}\right)^{-2} = -2$	-----
K. $27^{\frac{2}{3}} = 18$	-----
L. $\left(\sqrt{\frac{4}{25}}\right)^{-2} = 6\frac{1}{4}$	-----
M. $125^{-3} = 5$	-----
N. $\left(\frac{1}{16}\right)^{-2} = 4$	-----
O. $81^{\frac{3}{4}} = 27$	-----
P. $3125^{-\frac{3}{5}} = -125$	-----
Q. $\left(\frac{1}{243}\right)^{\frac{2}{5}} = \frac{1}{9}$	-----
R. $\sqrt{\sqrt{5}} = 5^{\frac{1}{4}}$	-----

Waar of niet waar? de uitslag

- | | | |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| A. $3^{\frac{1}{2}} = 1\frac{1}{2}$ |  | nee want $3^{\frac{1}{2}} = \sqrt{3}$ |
| B. $\sqrt[4]{25} = 5^{\frac{1}{2}}$ |  | klopt $\sqrt[4]{25} = \sqrt[4]{5^2} = 5^{\frac{2}{4}} = 5^{\frac{1}{2}}$ |
| C. $\sqrt{-5^2} = 5$ |  | nee want $\sqrt{-5^2} = \sqrt{-25} \neq 5$ |
| D. $7^{\frac{1}{2}} \cdot 7^{\frac{1}{2}} = 49^{\frac{1}{2}}$ |  | Klopt $\sqrt{7} \cdot \sqrt{7} = \sqrt{49}$ |
| E. $\left(\frac{1}{2}\right)^{\frac{1}{2}} = \frac{1}{4}$ |  | nee want $\left(\frac{1}{2}\right)^{\frac{1}{2}} = \frac{1}{\sqrt{2}}$ |
| F. $\left(\frac{1}{5}\right)^{-5} = 25$ |  | nee want $\left(\frac{1}{5}\right)^{-2} = 25$ |
| G. $\sqrt[4]{8} = 2$ |  | nee want $\sqrt[3]{8} = 2$ |
| H. $\sqrt[3]{7} = 7^{\frac{1}{3}}$ |  | klopt $\sqrt[3]{7} = 7^{\frac{1}{3}}$ |
| I. $(\sqrt{5})^{-2} = \frac{1}{5}$ |  | klopt $(\sqrt{5})^{-2} = \frac{1}{(\sqrt{5})^2} = \frac{1}{5}$ |
| J. $\left(\sqrt{\frac{1}{2}}\right)^{-2} = -2$ |  | nee want $\left(\sqrt{\frac{1}{2}}\right)^{-2} = 2$ |
| K. $27^{\frac{2}{3}} = 18$ |  | nee want $27^{\frac{2}{3}} = \left(27^{\frac{1}{3}}\right)^2 = 3^2 = 9$ |
| L. $\left(\sqrt{\frac{4}{25}}\right)^{-2} = 6\frac{1}{4}$ |  | klopt $\left(\frac{2}{5}\right)^{-2} = \left(\frac{5}{2}\right)^2 = 6\frac{1}{4}$ |
| M. $125^{-3} = 5$ |  | nee want $125^{\frac{1}{3}} = 5$ |
| N. $\left(\frac{1}{16}\right)^{-2} = 4$ |  | nee want $\left(\frac{1}{16}\right)^{-2} = 16^2 = 256$ |
| O. $81^{\frac{3}{4}} = 27$ |  | klopt $81^{\frac{3}{4}} = \left(81^{\frac{1}{4}}\right)^3 = 3^3 = 27$ |
| P. $3125^{-\frac{3}{5}} = -125$ |  | nee want $3125^{-\frac{3}{5}} = (5^5)^{-\frac{3}{5}} = 5^{-3} = \frac{1}{125}$ |
| Q. $\left(\frac{1}{243}\right)^{\frac{2}{5}} = \frac{1}{9}$ |  | klopt $\left(\frac{1}{243}\right)^{\frac{2}{5}} = \left(\frac{1}{3^5}\right)^{\frac{2}{5}} = \left(\frac{1}{3}\right)^2 = \frac{1}{9}$ |
| R. $\sqrt{\sqrt{5}} = 5^{\frac{1}{4}}$ |  | klopt $\sqrt{\sqrt{5}} = \left(5^{\frac{1}{2}}\right)^{\frac{1}{2}} = 5^{\frac{1}{2} \cdot \frac{1}{2}} = 5^{\frac{1}{4}}$ |