

**Zadatak 48.** Odredi  $x$  ako je

1.  $x^{-2} = \frac{1}{3^{-2}} + \frac{1}{4^{-2}}$ ; 2.  $x^{-2} = \frac{1}{3^{-2} + 4^{-2}}$ .

*Rješenje.* 1)  $\frac{1}{x^2} = 3^2 + 4^2 = 25$ ,  $x^2 = \frac{1}{25}$ ,  $x = \pm \frac{1}{5}$ ;

2)  $x^{-2} = \frac{1}{3^{-2} + 4^{-2}}$ ,  $\frac{1}{x^2} = \frac{1}{\frac{1}{9} + \frac{1}{16}} = \frac{144}{25}$ ,  $x^2 = \frac{25}{144}$ ,  $x = \pm \frac{5}{12}$ .