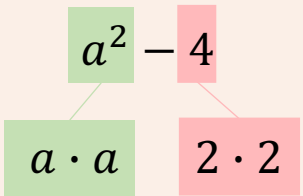
Nimi: _____

RUUTUDE VAHE TEGURDAMINE

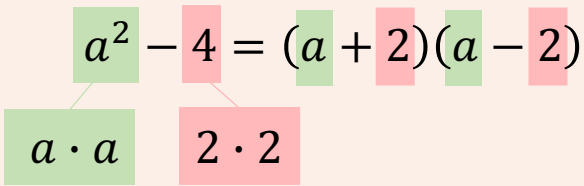
Kui kasutame valemit vastupidi, saame ruutude vahe **tegurdada**.

$$a^2 - 4 = (a + 2)(a - 2)$$

1. Leia üksliikmed, mille ruut on antud.



2. Tegurda.



Veel näiteid:

$x^2 - 16 = (x + 4)(x - 4)$

$a^2 - 36 = (a + 6)(a - 6)$

$a^2 - 9b^2 = (a + 3b)(a - 3b)$

$4x^2 - 25y^2 = (2x + 5y)(2x - 5y)$

$16m^2 - n^4 = (4m + n^2)(4m - n^2)$

Nimi: _____

RUUTUDE VAHE TEGURDAMINE

53. Kirjuta üksliikmete ruudud korrutisena.

Näide: $x^2 - 9$

x · x | 3 · 3

A. $4 - a^2$

B. $25 - m^2$

C. $x^2 - 16$

D. $a^4 - 4$

E. $4x^2 - y^2$

F. $9a^2 - 4b^2$

G. $49x^2 - 64y^2$

H. $16a^2b^2 - c^6d^6$

54. Tegurda.

Näide: $x^2 - 4 = (\ x\ +\ 2\ )(\ x\ -\ 2\ )$

A. $9 - x^2 = (\ \ +\ \ )(\ \ -\ \ )$

B. $16 - a^2 = (\ \ +\ \ )(\ \ -\ \ )$

C. $x^2 - 25 = (\ \ +\ \ )(\ \ -\ \ )$

D. $4x^2 - 4 = (\ \ +\ \ )(\ \ -\ \ )$

E. $a^2 - b^2 = (\ \ +\ \ )(\ \ -\ \ )$

F. $36x^2 - 9y^2 = (\ \ +\ \ )(\ \ -\ \ )$

55. Tegurda.

Näide: $x^2 - 9 =$ $(x + 3)(x - 3)$

A. $a^2 - 4 =$ .....

B. $25 - a^2 =$ .....

C. $x^2 - 36 =$ .....

D. $100 - b^2 =$ .....

E. $a^2 - 81 =$ .....

F. $a^2 - b^2 =$ .....

56. Tegurda.

A. $a^2b^2 - 4a^2 =$ .....

B. $16x^2 - y^2z^2 =$ .....

C. $x^4 - 36y^2 =$ .....

D. $1 - a^2b^6 =$ .....

E. $25z^4 - 81y^2 =$ .....

F. $\frac{x^2}{9} - y^2 =$ .....

G. $\frac{a^2}{16} - \frac{a^2b^2}{64} =$ .....