

Kvadratsætninger

Udfyld som vist i eksempel:

Eksempler:

$$(3a)^2 = 3^2 \cdot a^2 = 9 \cdot a^2$$

Udfyld:

$$(10x)^2 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$(5y)^2 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$(2 \cdot p)^2 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Eksempel:

$$(x+4)^2 = x^2 + 4^2 + 2 \cdot x \cdot 4 = x^2 + 16 + 8x$$

$$(a+4b)^2 = a^2 + (4b)^2 + 2 \cdot a \cdot 4b = a^2 + 16b^2 + 8ab$$

Udfyld:

$$(a+3)^2 = \underline{\hspace{2cm}}$$
$$= \underline{\hspace{2cm}}$$

$$(5x+2)^2 = \underline{\hspace{2cm}}$$
$$= \underline{\hspace{2cm}}$$

$$(2x+3y)^2 = \underline{\hspace{2cm}}$$
$$= \underline{\hspace{2cm}}$$

Eksempel:

$$(5-x)^2 = 5^2 + x^2 - 2 \cdot 5 \cdot x = 25 + x^2 - 10x$$

Udfyld:

$$(6-t)^2 = \underline{\hspace{2cm}}$$
$$= \underline{\hspace{2cm}}$$

$$(3a-4)^2 = \underline{\hspace{2cm}}$$
$$= \underline{\hspace{2cm}}$$

$$(5a-2b)^2 = \underline{\hspace{2cm}}$$
$$= \underline{\hspace{2cm}}$$

Eksempler:

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

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

Udfyld:

$$16 - a^2 = \underline{\hspace{2cm}}$$
$$= \underline{\hspace{2cm}}$$

$$x^2 - 36 = \underline{\hspace{2cm}}$$
$$= \underline{\hspace{2cm}}$$

$$9t^2 - 16 = \underline{\hspace{2cm}}$$
$$= \underline{\hspace{2cm}}$$

Eksempler:

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

$$(2x+3)(2x-3) = (2x)^2 - 3^2 = 4x^2 - 9$$

Udfyld:

$$(x+2)(x-2) = \underline{\hspace{2cm}}$$
$$= \underline{\hspace{2cm}}$$

$$(5+4t)(5-4t) = \underline{\hspace{2cm}}$$
$$= \underline{\hspace{2cm}}$$

$$(6a+2b)(6a-2b) = \underline{\hspace{2cm}}$$
$$= \underline{\hspace{2cm}}$$

Reducer:

$$9 + (x+3)(x-3) =$$

$$(2u+v)^2 - (4u^2 + v^2) =$$

$$2ab + (a-b)^2 - b^2 =$$