

Reducering

Reducer følgende udtryk

$$(x + y)^2 - 2xy$$

Regneregler for reducering

$$a(b + c) = ab + ac \quad (1)$$

$$(a + b)^2 = a^2 + b^2 + 2ab \quad (2)$$

$$(a - b)^2 = a^2 + b^2 - 2ab \quad (3)$$

$$(a + b)(a - b) = a^2 - b^2 \quad (4)$$

$$-a(b + c) = -ab - ac \quad (5)$$

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$$\begin{aligned}(x + y)^2 - 2xy &= x^2 + y^2 + 2xy - 2xy \\ &= x^2 + y^2\end{aligned}$$

$$a(b + c) = ab + ac \quad (1)$$

$$(a + b)^2 = a^2 + b^2 + 2ab \quad (2)$$

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Reducer følgende udtryk

$$-3(x + 2y) + 3x$$

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Reducer følgende udtryk

$$-3(x + 2y) + 3x = -3x - 6y + 3x$$

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$$a(b + c) = ab + ac \quad (1)$$

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Regneregler for reducering

Reducer følgende udtryk

$$\begin{aligned} -3(x + 2y) + 3x &= -3x - 6y + 3x \\ &= -6y \end{aligned}$$

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Reducer følgende udtryk

$$(2x + y)(2x - y) + y^2$$

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$$a(b + c) = ab + ac \quad (1)$$

$$(a + b)^2 = a^2 + b^2 + 2ab \quad (2)$$

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Regneregler for reducering

Reducer følgende udtryk

$$(2x + y)(2x - y) + y^2 = (2x)^2 - y^2 + y^2$$

$$a(b + c) = ab + ac \quad (1)$$

$$(a + b)^2 = a^2 + b^2 + 2ab \quad (2)$$

$$(a - b)^2 = a^2 + b^2 - 2ab \quad (3)$$

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Reducer følgende udtryk

$$\begin{aligned}(2x + y)(2x - y) + y^2 &= (2x)^2 - y^2 + y^2 \\ &= 4x^2\end{aligned}$$

$$a(b + c) = ab + ac \quad (1)$$

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