

Exam Sem 2 Cheat Sheet

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Perfect Squares

Perfect Squares

$$(a+b)^{2}$$
= $a^{2} + 2ab + b^{2}$

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

Example of Perfect Squares

Difference of Two Squares

Difference of Two Squares

$$\begin{array}{c}
O^{2}-b^{2} = (O-b)(O+b) \\
\text{note:} \\
(O-b)(O+b) \\
= O^{2}+Ab-Ab-b^{2} \\
= O^{2}-b^{2}
\end{array}$$

Examples of Difference of Two Squares

$$(x-1)(x+1)$$
 $(2m+5)(2m-5)$
 $x^2+x-x-1$ $4m^2-10m+10m-25$
 x^2-1 $4m^2-25$

$$3x^{2} - \sqrt{15} + \sqrt{15}$$

 $(\sqrt{3}x + \sqrt{5}) (\sqrt{3}x + \sqrt{5})$
 $3x^{2} - 5$



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