LATEX WORKSHEET

$\operatorname{CCNY} \operatorname{AWM}$

1. Section Title

- 1.1. Subsection Title. Some plain text. Some italic text. Some bold text.
- a) The first item.
- b) The second item.
 - The first item.
 - The second item

	col1	col2
row1	cell1	cell2
row2	cell3	cell4

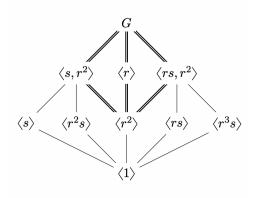


FIGURE 1. Lattice of quotient group $D_8/\langle r^2 \rangle$ highlighted on top of the lattice of D_8 .

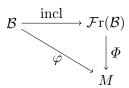


FIGURE 2. The universal property of free modules. (This diagram commutes!)

Theorem 1.1 (Theorem Name). Theorem statement.

Definition (Term). Definition statement.

Here's an inline math equation: $f: X \to Y$.

$$g: X \to Y$$
$$h: X \to Y$$

$$(a + b) + (c + d) = ((a + b) + c) + d$$
$$= (a + (b + c)) + d$$
$$= a + ((b + c) + d)$$
$$= a + (b + (c + d))$$

$$||a+b|| \le ||a|| + ||b|| \tag{1}$$

$$\begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$$

$$f(x) = \begin{cases} 1, & \text{x rational} \\ 0, & \text{x irrational} \end{cases}$$

$$det(A) = \sum_{\sigma \in S_n} \operatorname{sgn}(\sigma) \left(\prod_{i=1}^n \alpha_{i,\sigma(i)} \right)$$

Here's an article citation. [1] Here's a book citation with a specific section. [2, §1.1] Here's a website citation. [3]

References

- [1] A.Y. Okounkov A.M. Vershik. "A New Approach to the Representation Theory of the Symmetric Groups. II." In: J Math Sci 131 (2005), pp. 5471–5494.
- [2] Emily Riehl. Category Theory in Context. Dover Publications, 2016. ISBN: 978-0486809038. URL: https://math.jhu.edu/~eriehl/context/.
- [3] Wikipedia. Tensor product of modules. URL: https://en.wikipedia.org/wiki/Tensor_product_of_modules#Modules_over_commutative_rings (visited on 12/22/2021).