All examples in this test should be successfully parsed by LaTeXML's grammar, and are meant as regression tests.

1 sanity check

1. 1+1=2

2 Factor

2.0.1 Empty Balanced

- 1. ()
- 2. []
- 3. {}
- 4. $\langle \rangle$
- 5.
- 6.

2.0.2 Single Factor production and Monomials

- $1. \times x$
- 2. |x
- $3. \sin$
- 4. arcsin
- 5. ¬
- 6. $\frac{1}{2}x$
- 7. _a
- 8. 12^3
- 9. ∫
- 10. $\int x$
- 11. $\int x \, dx$
- 12. <u>\sum_{1}</u>
- 13. $\sum x$
- 14. $\{x \mid x > 0\}$

- 15. ||x||
- 16. |a|
- 17. $\langle \phi |$
- 18. $|\psi\rangle$
- 19. $\langle \phi | \psi \rangle$
- 20. xyz
- 21. $\sqrt{x}\sqrt{y}$
- 22. ()[[{}[]()
- $23. \ 2|ab|$
- 24. ||x||a||y||

2.0.3 Arrays

1. standalone cases

$$\begin{cases} cca & b \\ c & d \end{cases}$$

- 2. standalone array
- $egin{array}{cc} a & b \\ c & d \end{array}$

3. lbrace array

$$\{\begin{array}{cc} a & b \\ c & d \end{array}$$

4. rbrace array

$$\begin{pmatrix} a & b \\ c & d \end{pmatrix}$$

3 Advanced Scripted

- $1. \int_0^\infty x^2 dx$
- 2. $\sum_{i=0}^{50} x^i$

4 Advanced Fenced

- 1. $\langle a, b \rangle$
- 2. $\langle ab \rangle$
- 3. $\langle a \rangle$

5 Polynomial

- $1. \ ab + cd ef + gh$
- $2. \ |A\rangle = |B\rangle + |C\rangle$

6 Edge/Artefact Cases

1.