

VortexSpace Printable (<http://vortexspace.org>)

## Fundamental Constants

**Start with 13 Symbols That Represent 13 Fundamental Constants. We will next define interrelationships between these 13 symbols.**

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$$\bullet \mathbf{1} = 1.00000$$

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$$\bullet \mathbf{1_{pos}} = 1.111795$$

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$$\bullet \mathbf{1_{neg}} = 0.899447$$

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$$\bullet \mathbf{CSC} = 0.707107$$

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$$\bullet \mathbf{Phe} = 0.786151$$

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$$\bullet \mathbf{1_{posBlack}} = 1.236068$$

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$$\bullet \mathbf{1_{posRed}} = 0.809017$$

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$$\bullet \mathbf{1_{negBlack}} = 0.809017$$

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$$\bullet \mathbf{1_{negRed}} = 1.236068$$

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$$\bullet \mathbf{CSC_{Black}} = 2$$

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$$\bullet \mathbf{CSC_{Red}} = 0.5$$

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$$\bullet \mathbf{Phe_{Black}} = 1.618034$$

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$$\bullet \mathbf{Phe_{Red}} = 0.618034$$


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**The equations of the 2nd dimension involve 3 symbols ( $\mathbf{1}$   $\mathbf{1_{pos}}$   $\mathbf{1_{neg}}$ )**

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$$\mathbf{1_{pos}} * \mathbf{1_{neg}} = \mathbf{1}$$

$$1.111795 * 0.899447 = 1.000000$$

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$$\mathbf{1_{pos}} = \mathbf{1} / \mathbf{1_{neg}}$$

$$1.111795 = 1.000000 / 0.899447$$

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$$\mathbf{1_{neg}} = \mathbf{1} / \mathbf{1_{pos}}$$

$$0.899447 = 1.000000 / 1.111795$$


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**The equations of the 3rd dimension involve 5 symbols ( $\mathbf{1}$   $\mathbf{1_{pos}}$   $\mathbf{1_{neg}}$   $\mathbf{Phe}$   $\mathbf{CSC}$ )**

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$$\mathbf{Phe} / \mathbf{CSC} = \mathbf{1_{pos}}$$

$$0.786151 / 0.707107 = 1.111795$$

$$\text{CSC} / \text{Phe} = 1_{\text{neg}}$$

$$0.707107 / 0.786151 = 0.899447$$

$$\text{Phe} = \text{CSC} / 1_{\text{neg}}$$

$$0.786151 = 0.707107 / 0.899447$$

$$\text{Phe} = \text{CSC} * 1_{\text{pos}}$$

$$0.786151 = 0.707107 * 1.111795$$

$$\text{CSC} = \text{Phe} / 1_{\text{pos}}$$

$$0.707107 = 0.786151 / 1.111795$$

$$\text{CSC} = \text{Phe} * 1_{\text{neg}}$$

$$0.707107 = 0.786151 * 0.899447$$

The equations of the 4th dimension involve 13 symbols (1 1<sub>pos</sub> 1<sub>neg</sub> Phe CSC 1<sub>posRed</sub> 1<sub>posBlack</sub> 1<sub>negRed</sub> 1<sub>negBlack</sub> Phe<sub>Red</sub> Phe<sub>Black</sub> CSC<sub>Red</sub> CSC<sub>Black</sub>)

$$\text{CSC}_{\text{Black}} = \text{CSC}^{(1+1)}$$

$$\text{CSC}_{\text{Black}} = 0.5$$

$$\text{CSC}_{\text{Red}} = 1 / \text{CSC}^{(1+1)}$$

$$\text{CSC}_{\text{Red}} = 2$$

$$\text{Phe}_{\text{Black}} = \text{Phe}^{(1+1)}$$

$$\text{Phe}_{\text{Black}} = 0.618034$$

$$\text{Phe}_{\text{Red}} = 1 / \text{Phe}^{(1+1)}$$

$$\text{Phe}_{\text{Red}} = 1.618034$$

$$1_{\text{posBlack}} = 1_{\text{pos}}^{(1+1)}$$

$$1_{\text{posBlack}} = 1.236068$$

$$1_{\text{posRed}} = 1 / 1_{\text{pos}}^{(1+1)}$$

$$1_{\text{posRed}} = 0.809017$$

$$1_{\text{negBlack}} = 1_{\text{neg}}^{(1+1)}$$

$$1_{\text{negBlack}} = 0.809017$$

$$1_{\text{negRed}} = 1 / 1_{\text{neg}}^{(1+1)}$$

$$1_{\text{negRed}} = 1.236068$$

### CHEATSHEET

$$1_{\text{pos}} = (1 / \sqrt{(\sqrt{5}+1)/2}) / (\sqrt{2}/2) = 1.1117859405$$

$$1_{\text{neg}} = (\sqrt{2}/2) / (1 / \sqrt{(\sqrt{5}+1)/2}) = 0.89945371997$$

$$1_{\text{posBlack}} = (1_{\text{pos}})^2 = ((\sqrt{2}/2) / (1 / \sqrt{(\sqrt{5}+1)/2}))^2 = 1.2360679775$$

$$1_{\text{posRed}} = 1 / (1_{\text{pos}})^2 = 1 / ((\sqrt{2}/2) / (1 / \sqrt{(\sqrt{5}+1)/2}))^2 = 0.80901699437$$

