The mathematician's clock

This clock avoids the use of numeric symbols by expressing the hours [approximately] with equations based on four important numbers commonly used in mathematics:

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Circle constant \pi = 3.14159...

Euler's number e = 2.71828...

Golden section \Phi = 0.61803... = (\sqrt{5} - 1)/2

Imaginary unit i = \sqrt{-1}
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$$-e^{i\pi} = 1$$

$$\int_{-\pi}^{+\pi} \frac{\mathrm{d}x}{\pi} = 2$$

$$\cosh\sqrt{\pi} \approx 3 \quad [+0.028...]$$

$$\pi + \frac{e}{\pi} \approx 4 \quad [+0.007...]$$

$$\Phi + \frac{e}{\Phi} \approx 5 \quad [+0.016...]$$

$$\sqrt{\pi^{\pi}} \approx 6 \quad [+0.038...]$$

$$e^{\pi\Phi} \approx 7 \quad [-0.030...]$$

$$\Phi + \int_{-e}^{+e} |x| \, \mathrm{d}x \approx 8 \quad [+0.007...]$$

$$\pi + e + \pi \approx 9 \quad [+0.001...]$$

$$\frac{\pi}{\arcsin(\Phi \ln \sqrt{e})} = 10$$

$$B_{\text{HEX}} = 11 \quad [\text{hexadecimal}]$$

$$\arcsin(\pi^{\pi})^{\pi} \approx 12 \quad [-0.009...]$$