

Wentao Lu

1. Pierre de Fermat      The Elements
2. Gaspard Monge's original pupil is Victor Poncelet
3. mayor of the town of Bourg-la-Reine
4. ~~Victor~~ Louis Cauchy

~~Applications d'algèbre et de géométrie~~

Traité des propriétés projectives  
des figures

this book is about projective  
geometry

$$5. \int_{-\infty}^{\infty} e^{-\frac{x^2}{2}} dx = \sqrt{2} \sqrt{\pi}$$

$$\int e^{-\frac{x^2}{2}} dx = \left(\frac{\pi}{2}\right)^{\frac{1}{2}} \operatorname{erf}\left(\frac{x}{\sqrt{2}}\right) + C$$

$$\Rightarrow \int_{-\infty}^{\infty} e^{-\frac{x^2}{2}} dx = \sqrt{\frac{\pi}{2}} - \left(-\sqrt{\frac{\pi}{2}}\right) = 2\sqrt{\frac{\pi}{2}} = \sqrt{2} \sqrt{\pi} = \sqrt{2\pi}$$