

$$f_{binomial} := \text{binomial}(100, x) \cdot 0.5 \cdot x \cdot 0.5 \cdot (100 - x);$$

$$\text{binomial}(100, x) 0.5^x 0.5^{100-x} \quad (1)$$

$$mean := 50; \sigma := \text{sqrt}(100 \cdot 0.5 \cdot (1 - 0.5));$$

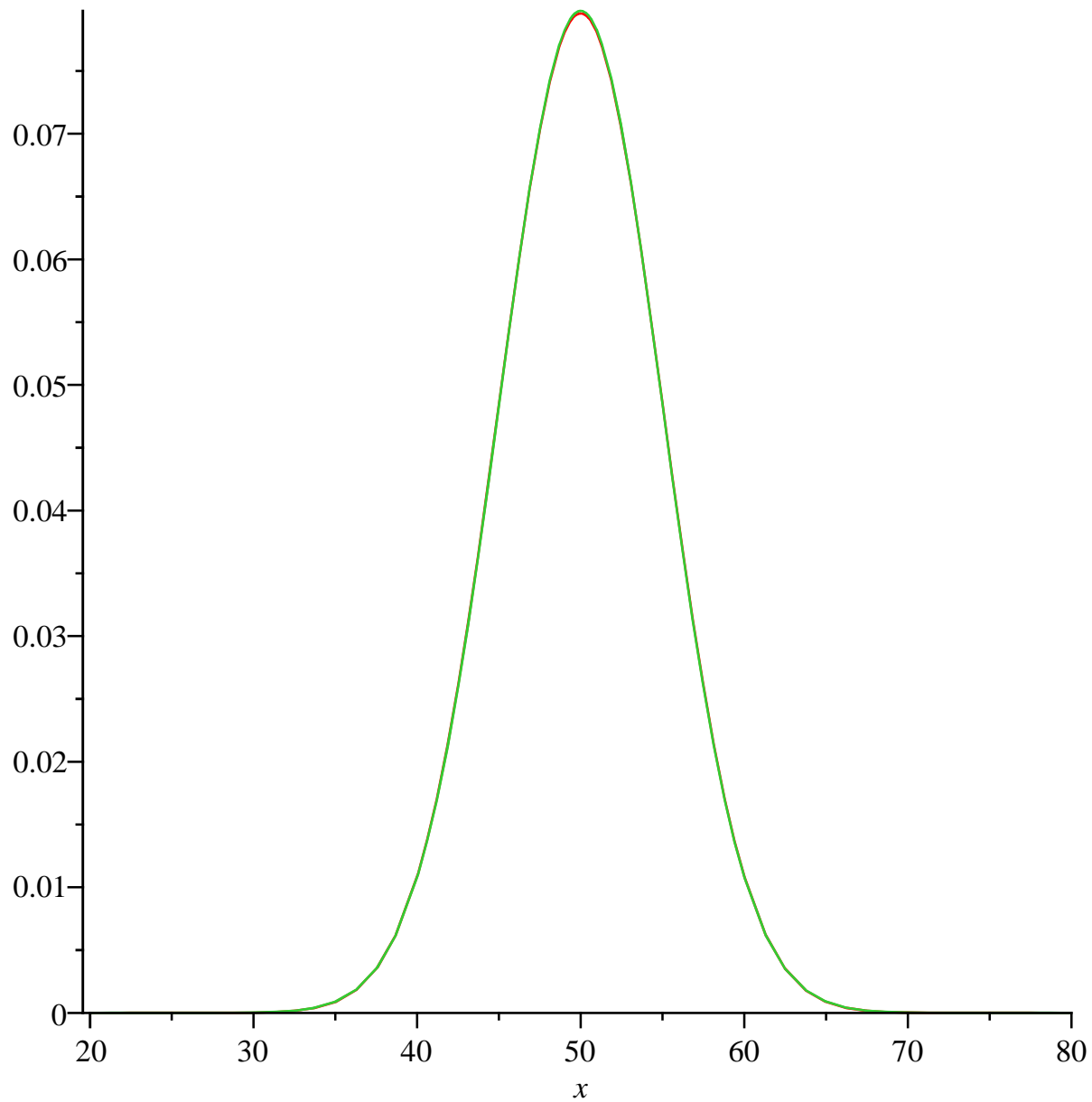
$$50.$$

$$5.000000000 \quad (2)$$

$$f_{gauss} := \frac{\exp\left(-\frac{(x - mean) \cdot 2}{2 \cdot \sigma \cdot 2}\right)}{\text{sqrt}(2 \cdot \text{evalf}(\pi) \cdot \sigma \cdot 2)};$$

$$0.07978845610 e^{-0.02000000000 (x - 50.)^2} \quad (3)$$

plot({fbinomial, fgauss}, x = 20 .. 80);



plot\left(\frac{(f_{gauss} - f_{binomial}) \cdot 100}{f_{gauss}}, x = 37 .. 63\right);

