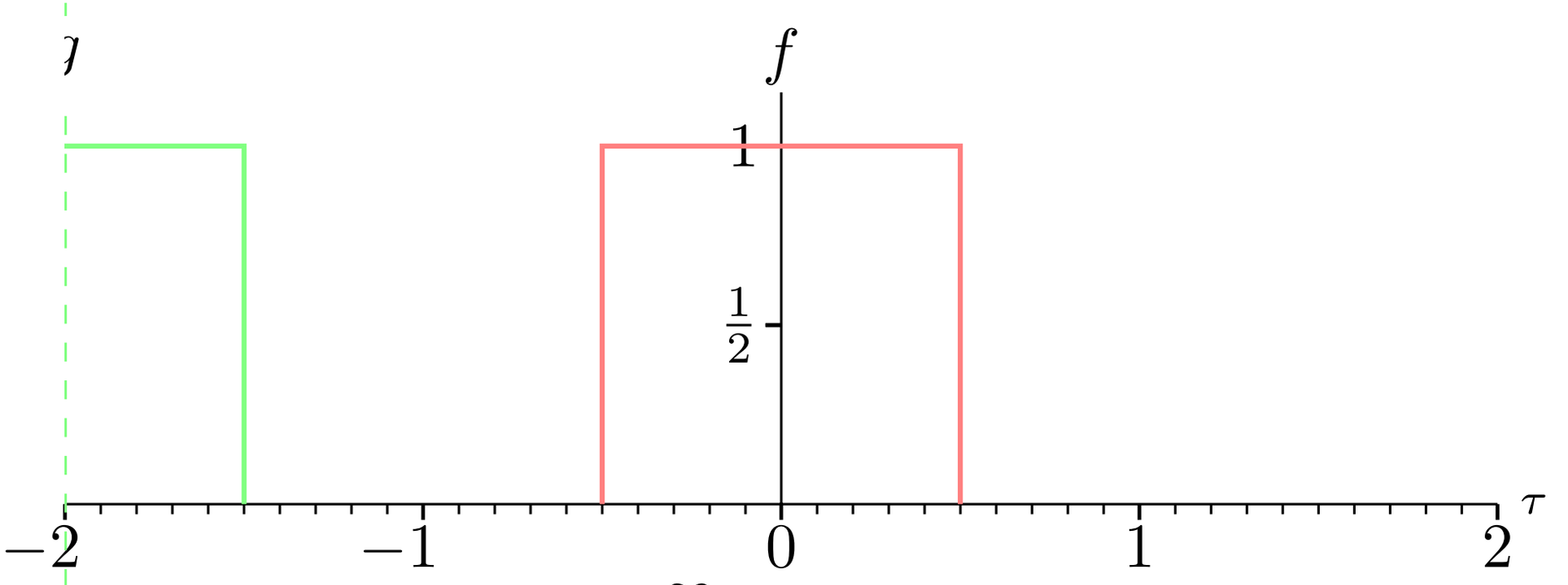
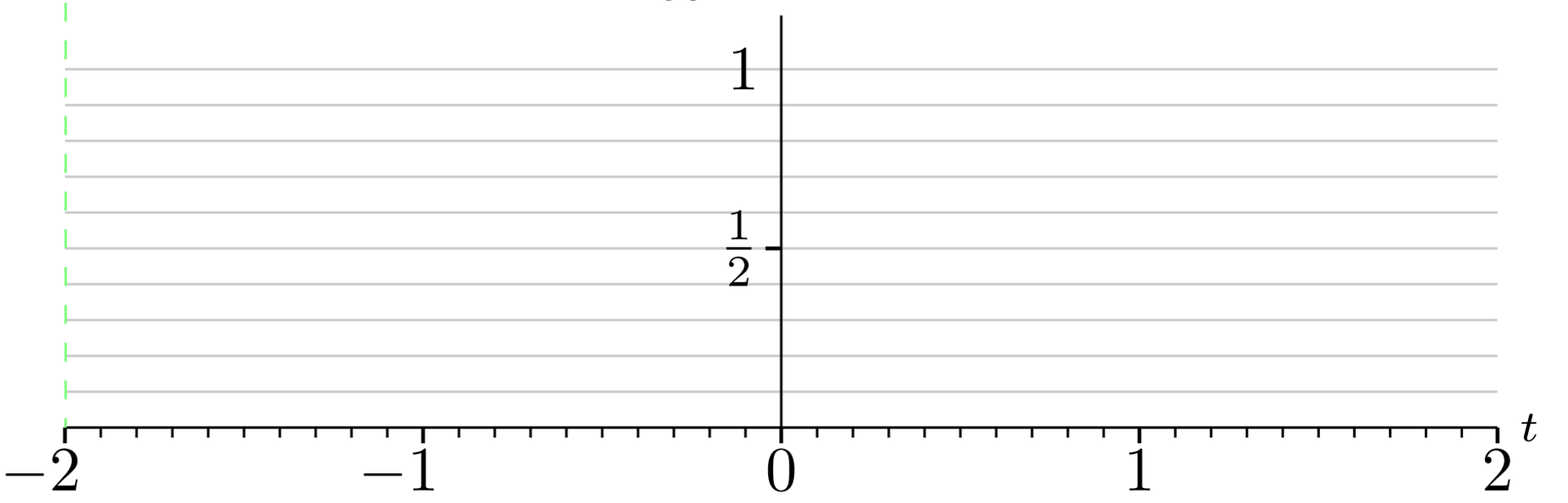
$$f * g = \int_{-\infty}^{\infty} f(\tau) g(t-\tau)\, d\tau$$