Typing Integration

$$\int \frac{1}{1+x^2} dx = \tan^{-1}(x) + C \tag{1}$$

$$\int \frac{1}{1+x^2} dx = \tan^{-1}(x) + C$$

$$\int_0^1 \left(\int_{x^2}^x (x+3) dy \right) dx = \frac{7}{12}.$$
(2)