More Substitions

1. Evaluate the following definite integrals:

$$\int_0^2 \sqrt{(\pi x - 4)}\, dx \tag{1}$$

$$\int_1^2 2xe^{x^2}\, dx \tag{2}$$

$$\int_0^2 \frac{x}{(1+x^2)^2}\, dx \tag{3}$$