1 Correct work for the following: 330/52, 78, 80, 95 and 338/13-53 e.o.o.

1.1 p. 338 13-53 e.o.o.

13. Find the indefinite integral:

$$\int \frac{x^2 - 3x + 2}{x + 1} dx = \tag{1}$$

$$\text{let } u = x + 1,\ x = u - 1 \text{ and } du = dx \tag{2}$$

$$\int \frac{(u-1)^2 - 3(u-1) + 2)}{u} du = \tag{3}$$

$$\int \frac{u^2 - 2u + 1 - 3u + 3 + 2}{u} du = \tag{4}$$

$$\int \frac{u^2 - 5u + 6}{u} du = \tag{5}$$

$$\int \left(\frac{u^2}{u} - \frac{5u}{u} + \frac{6}{u} \right) du = \tag{6}$$

$$\tag{7}$$