

**Zadatak 5.**

Pomoću tablice derivacija odredi primitivnu funkciju sljedećih funkcija:

$$1) f(x) = 2x - 1; \quad 2) f(x) = 3x^2 - 2x + 1;$$

$$3) f(x) = x^2 - x + 2; \quad 4) f(x) = \frac{1}{x^2} - 2x;$$

$$5) f(x) = \frac{1}{2}\sqrt{x} - 1; \quad 6) f(x) = \frac{1}{\sqrt{2-x}};$$

$$7) f(x) = \sin x - \cos x;$$

$$8) f(x) = 2 \sin(3x + 1);$$

$$9) f(x) = \frac{1}{x+1}.$$

**Rješenje.**

$$1) F(x) = x^2 - x + C;$$

$$2) F(x) = x^3 - x^2 + x + C;$$

$$3) F(x) = \frac{1}{3}x^3 - \frac{1}{2}x^2 + 2x + C;$$

$$4) F(x) = -\frac{1}{x} - x^2 + C;$$

$$5) F(x) = \frac{1}{2} \cdot \frac{2}{3}x\sqrt{x} - x + C = \frac{1}{3}x\sqrt{x} - x + C;$$

$$6) F(x) = -2\sqrt{2-x} + C;$$

$$7) F(x) = -\cos x - \sin x + C;$$

$$8) F(x) = -\frac{2}{3} \cos(3x + 1) + C;$$

$$9) F(x) = \ln|x+1| + C.$$