Calcolare i seguenti integrali

1. $\int (x^2 - x + 2)\, dx$

2. $\int \dfrac{\sqrt{x} - 2\sqrt[3]{x - 1}}{x^2}\, dx$

3. $\int (x^3 - \dfrac{2}{x^2})\, dx$

4. $\int \dfrac{2k}{k^2 + 3}\, dk$

5. $\int \dfrac{4}{x^3}\sqrt{x}\, dx$

6. $\int \dfrac{5}{2}x^3\sqrt{x}\, dx$

7. $\int \dfrac{2x^3 - 5x + 2}{x^4}\, dx$

8. $\int (6x^3 + 2)\, dx$

9. $\int \dfrac{4}{4x - 3}\, dx$

10. $\int (3x^2 - 2x^3 + 1)\, dx$

11. $\int x^2(x - 9)\, dx$

12. $\int (x - 2)(x + 5)\, dx$

13. $\int \dfrac{2x^2 + 5}{x^2}\, dx$

14. $\int \dfrac{2x^3 + 5}{x^2}\, dx$

15. $\int \dfrac{1}{3x + 5}\, dx$

16. $\int \left(3 - \dfrac{2}{x}\right)^2 dx$

17. $\int 4e^{4x}\, dx$

18. $\int e^{4x} \, dx$

19. $\int e^{\frac{x}{3}}$

20. $\int (x-3)^4 \, dx$

21. $\int (5-t)^3 \, dt$

22. $\int \frac{1}{x+1} \, dx$

23. $\int \frac{x}{2x^2+5} \, dx$

24. $\int 5\sin(5x) \, dx$

25. $\int 2\cos(2x) \, dx$