

Extra derivative problems

Find a derivative for each of the following.

1. $x^3 - 5x + 1.3$

2. $4x^2 - x + \frac{3}{x^2}$

3. $3\sqrt{(x)} + 9e^x$

4. $7x^2 + 13\ln(x)$

5. $x \ln(x)$

6. $\frac{x^2 + \sqrt{x} + 1}{x^2}$

7. $2x - \frac{1}{\sqrt[3]{x}} + 3^x$

8. $(x^2 + 5)^3(3x^3 - 2)^2$

9. $-3x^4 - 4x^3 - 6x + 2$

10. $(3x^2 + \pi)(e^x - 4)$

11. $\frac{5}{10 - x^2}$

12. $e^{x^3-x} + 3x^2 - \ln(2x + 7)$

13. $\frac{x^3}{9}(3\ln(x) - 1)$

14. $\frac{x^3 + 3x - 5}{x^2}$

15. $11x^9 - 3x^{-5} + 3\sqrt{(x^2 - x)}$