

Derivative Practice

1. a) Find the derivative of $3x^4 - 5x^6 + 1$

b) Find $f'(3)$

c) Find $f'(0)$

2. a) Find the derivative of $x^5 - 3x^2 + x^3 - 4$

b) Find $f'(2)$

c) Find $f'(5)$

3. a) Find the derivative of $4x - 4$

b) Find $f'(2)$

4. a) Find the derivative of $8x^3 - 3x^2 + x$

b) Find $f'(1)$

5. a) Find the derivative of $7x^6 + 18x^2 + 2$

b) Find $f'(2)$

6. a) Find the derivative of $5x^2 + 10x + 25$

b) Find $f'(5)$

7. a) Find the derivative of $8x^4 + 2x^2 - 3x$

b) Find $f'(4)$

8. a) Find the derivative of $12x^4 + 13x^2 - 9x^7$

b) Find $f'(2)$

9. a) Find the derivative of $3x^2 + x^5 - x^3$

b) Find $f'(3)$

10. a) Find the derivative of $3x^4 - 2x^5$

b) Find $f'(2)$

11. a) Find the derivative of $2x^2 + x + 1$

b) Find $f'(6)$

12. a) Find the derivative of $3x^{12} + 4x^8 + 20$

b) Find $f'(1)$

13. a) Find the derivative of $2x^4 + 3x^3 + 4x^2$

b) Find $f'(2)$

14. a) Find the derivative of $3x + 24$

b) Find $f'(3)$

15. a) Find the derivative of $3x^2 + 2x + 1$

b) Find $f'(2)$

16. a) Find the derivative of $14x^3 - 3x^4 + 2x$

b) Find $f'(1)$

17. a) Find the derivative of $7x^{12} + 5x^2$

b) Find $f'(1)$

18. a) Find the derivative of $10x^2 + 1000x - 250$

b) Find $f'(1)$

19. a) Find the derivative of $8x - 12x^4 + 17x^2$

b) Find $f'(4)$

20. a) Find the derivative of $14x^2 + 22x^3 - 33$

b) Find $f'(2)$