أجد مشتقة كل اقتران مما يأتي :

1. $F(x) = (7x - 5)^{-4}$

2. $F(x) = \left(\frac{3}{4}x^4 - 5x^2\right)^{\frac{3}{7}}$

3. $F(x) = \sqrt{X^3 - 5X} + 7(9x + 1)^5$

4. $F(x) = \left(\sqrt{X^3 - 2} + 5\right)^2$

5. $F(x) = \frac{7}{X^{-3}} + 3X^3 + 9X^2$

6. $F(x) = \sqrt[5]{X^6}$

7. $F(x) = \frac{5}{\sqrt[3]{2X - 8}}$

8. $F(x) = \sqrt{(3x^2 - 5)^3} + (3 - 2x^3)^4$

9. $F(x) = \sqrt[3]{2x + (x^2 + x)^4}$

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10. $F(x) = (x^2 + 4)^5 (7x^4 - 5x)$

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11. $F(x) = \sqrt{x^3 - 5} \ (7x + 8)$

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12. $F(x) = x^3 (2 - 4x)^{-4}$

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13. $F(x) = \left(x^2 + \dfrac{3}{x}\right)(x^3 - 5x)$

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14. $F(x) = \dfrac{x^5 + 7x^{-2}}{3x + 1}$

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15. $F(x) = \dfrac{3}{(x^3 - 5)^2}$

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16. $F(x) = 3x^{-7}(X^5 - 2x)$

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17. $F(x) = \dfrac{x^3}{2 - 5x}$

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18. $F(x) = \dfrac{6X^2}{\sqrt{6x - 2}}$

19. $F(x) = \dfrac{3}{X^3} + \dfrac{2x^3}{5} + 7$

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20. $F(x) = e^{-5x^2} + 3e^{7x} - e^5$

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21. $F(x) = x^3 - 5e^{3x} + \dfrac{7}{x^2}$

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22. $F(x) = (x^3 - 5x)e^{2x}$

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23. $F(x) = \dfrac{3e^{x^2}}{x^3 - 5}$

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24. $F(x) = 6x - 9 + 8e^{3x}$

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25. $F(x) = 3 \ln 3x + e^{9x^2}$

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26. $F(x) = \dfrac{\ln x}{x^3}$

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27. $F(x) = x^3 \ln 2x$

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28. $F(x) = \ln \sqrt{x^3 - 2x}$

29. $F(x) = (\ln 3x^2)^4$

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30. $F(x) = \ln \dfrac{x^3}{2x-5}$

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31. $F(x) = \ln 3 - e^{2x}$

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32. $F(x) = e^{4x} \ln 5x^2$

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33. $F(x) = 3\sin 6x^2 + \cos 5x$

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34. $F(x) = \cos 7x - \sin 3x$

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35. $F(x) = \sin^3(2x^2 - 5)$

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36. $F(x) = (\cos 6x - \sin x^3)^5$

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37. $F(x) = \sqrt{\cos 3x} + e^{3x}$

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38. $F(x) = \sin \sqrt[3]{X^5}$

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39. $F(x) = (8x^3 - 6x)\cos 4x^2$

40. $F(x) = (\ln 3x)^5 \sin 7x^3$

41. $F(x) = (\sin(5x^2 - 21))^7$

42. $F(x) = \dfrac{\ln x^3}{\cos x}$

43. $F(x) = \dfrac{3e^{6x}}{\sin 3x}$

44. $F(x) = \left(e^{7x^3}\right)(\sin 6x)^3$

45. $F(x) = \sin(5x) \ \ln(\cos x)$

46. $F(x) = \ln \dfrac{3}{x^2 - 5}$

47. $F(x) = \dfrac{\sqrt{\sin 5x}}{x^3}$