$8x^3-6x+4$

$\dfrac{4}{(x+2)^2}$

$\dfrac{1}{x^2+2x}$

$\dfrac{\sqrt{x+1}}{2(x+1)}$

$\dfrac{-\sqrt{x+1}}{2(x+1)}$

$\dfrac{3x+7\sqrt{2x+4}}{2x+4}$

$\dfrac{-1}{(x+2)^2}$

$\dfrac{1}{(x+2)^2}$

$\dfrac{1}{x^2+2}$

$40(4x+3)^9$

$\dfrac{1}{2}(x+1)^{\frac{1}{2}}$

$\dfrac{1}{2\sqrt{x+1}}$

-1

$\dfrac{(3x+7)\sqrt{2x+4}}{2x+4}$

$20(4x+3)^9$

$\dfrac{1}{(x+3)^2}$

$\dfrac{(16x+2)\sqrt{4x+1}}{(4x+1)^2}$

$\dfrac{7}{(x+2)^2}$

$80(4x+3)^9$

$\dfrac{-1}{(x+3)^2}$

12

$2x$

$\dfrac{-2x\sqrt{5-2x^2}}{5-2x^2}$

0

$\dfrac{(8x+4)\sqrt{4x+1}}{(4x+1)^2}$

4

$\dfrac{-2x}{\sqrt{5-2x^2}}$

$2x+4$

$(3+\frac{1}{3}x)^2$

$10-6x$

16

$6x^2-7$ 3

$3(3+\frac{1}{3}x)^2$

$12x(3x^2+3)$ $16x^2+17x+3y$

$3x$

$6x^2$ $6x$ $5x^4$ $10x+3$

$36+4$ 7 $6x+7$ $10x$ $\dfrac{5}{0}$ $10x+3x+1$

$4x-7$ $4x$

$4x^2-7$

36 $40x^3+75x^2+24x-20$ $4x+5$ $\dfrac{4x}{\sqrt{4x+1}}$

$18x^2+4x+4$

Connect the dot for an answer to the dot for the previous answer.
Take the derivative of y with respect to x (unless otherwise directed).
  Simplify each expression.
   Write each answer in simplest radical form.

1. $y = 3x^2$

2. $y = 7x + 6$

3. $y = x^5$

4. $y = (x+2)(3x+1)$

5. $y = 5x^2 + 3x - 1$

6. $y = (3x^2+3)^2$

7. $y = (x+2)^2$

8. $y = 12$

9. $y = \dfrac{1}{x+3}$

10. $y = \sqrt{x+1}$

11. $y = (4x+3)^{10}$

12. $y = 2(4x+3)^{10}$

13. $y = \dfrac{x+1}{x+2}$

14. $y = \dfrac{4(x+1)}{x+2}$

15. $y = 2x^4 - 3x^2 + 4x + 1$

16. $y = (x+3)\sqrt{2x+4}$

17. $y = \dfrac{7(x+1)}{x+2}$

18. $y = \sqrt{5-2x^2}$

19. $y = \dfrac{4x}{\sqrt{4x+1}}$

20. $y = (3+\frac{1}{3}x)^3$

21. $y = 3x$

22. $y = 3x^2 - 7$

23. $y = \dfrac{2x^5 + 6x^4 + 6x^3 + 2x^2}{x^3 + 3x^2 + 3x + 1}$

24. $y = 5x^2 - 4$

25. $y = 2x^2 + 5x + 4$

26. $y = (5x^2-4)(2x^2+5x+4)$

27. $y = 9 + 2x^2$

START A NEW LINE.

28. $y = 2x^2 - 7x + 15$

29. $y = 6x^3 + 2x^2 + 4x - 3$

30. Find the second derivative of problem # 29.

31. Find the third derivative of problem # 29.

32. $y = 2x^2 - 7x - 9$

CIRCLE THE LAST DOT & ANSWER.

33. $y = \dfrac{4x^3 - 4x}{x^2 - 1}$