Problems 9, 11, 13, 15, 17, 19, 21 from the Chapter 4 of the textbook (pages 25–26) and **all even problems from the Chapter 5** (pages 31-32).

Find dy/dx.

9. $x^3 + y^3 = 1$

11. $y^4 + x^2y^2 + x^4 = 3$

13. $x^3 = y^5$

15. $y = (\frac{x}{x+1})^{10}$

17. $y = (3x+5)^2$ (Use the Chain Rule.)

19. $y = (-2x^2+1)^3$ (Use the Chain Rule.)

21. Find $y'(1)$ if $y = \dfrac{1}{\dfrac{1}{x^2+1} + \dfrac{1}{x^2+2} + \dfrac{1}{x^2+3}}$.

Find the derivative y'.

2. $y = 3x^{1/3} + x^{2/3}$

4. $y = \sqrt{x} + \sqrt[3]{x}$ $(x > 0)$

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

8. $y = \dfrac{\sqrt{x+1}}{\sqrt{x}+1}$ $(x > 0)$

10. $y = \dfrac{1}{\sqrt[3]{x\sqrt{x} + 4x - \sqrt{x} + 4}}$ $(x > 0)$