

5. $\frac{1}{x^2} = x^{-2}$ $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$
 $\frac{d}{dx} \frac{1}{x^2} = -\frac{2}{x^3}$

6. $\frac{1}{x^3} = x^{-3}$ $\frac{d}{dx} x^{-3} = -3x^{-4} = -\frac{3}{x^4}$
 $\frac{d}{dx} \frac{1}{x^3} = -\frac{3}{x^4}$

7. $\frac{1}{x^4} = x^{-4}$ $\frac{d}{dx} x^{-4} = -4x^{-5} = -\frac{4}{x^5}$
 $\frac{d}{dx} \frac{1}{x^4} = -\frac{4}{x^5}$

8. $\frac{1}{x^5} = x^{-5}$ $\frac{d}{dx} x^{-5} = -5x^{-6} = -\frac{5}{x^6}$
 $\frac{d}{dx} \frac{1}{x^5} = -\frac{5}{x^6}$

دگرگونی سه شیبی:

دگرگونی سه شیبی در $x = 0$ و $y = 0$ است. $\frac{d}{dx} \frac{1}{x^2} = -\frac{2}{x^3}$ و $\frac{d}{dy} \frac{1}{y^2} = -\frac{2}{y^3}$

دگرگونی سه شیبی:

- $\frac{d}{dx} \frac{1}{x^2} = -\frac{2}{x^3}$
- $\frac{d}{dy} \frac{1}{y^2} = -\frac{2}{y^3}$
- $\frac{d}{dx} \frac{1}{x^3} = -\frac{3}{x^4}$
- $\frac{d}{dy} \frac{1}{y^3} = -\frac{3}{y^4}$
- $\frac{d}{dx} \frac{1}{x^4} = -\frac{4}{x^5}$
- $\frac{d}{dy} \frac{1}{y^4} = -\frac{4}{y^5}$
- $\frac{d}{dx} \frac{1}{x^5} = -\frac{5}{x^6}$
- $\frac{d}{dy} \frac{1}{y^5} = -\frac{5}{y^6}$
- $\frac{d}{dx} \frac{1}{x^6} = -\frac{6}{x^7}$
- $\frac{d}{dy} \frac{1}{y^6} = -\frac{6}{y^7}$
- $\frac{d}{dx} \frac{1}{x^7} = -\frac{7}{x^8}$
- $\frac{d}{dy} \frac{1}{y^7} = -\frac{7}{y^8}$
- $\frac{d}{dx} \frac{1}{x^8} = -\frac{8}{x^9}$
- $\frac{d}{dy} \frac{1}{y^8} = -\frac{8}{y^9}$
- $\frac{d}{dx} \frac{1}{x^9} = -\frac{9}{x^{10}}$
- $\frac{d}{dy} \frac{1}{y^9} = -\frac{9}{y^{10}}$

