

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 سبب شمرده شود:

دگرگونی $\frac{1}{x^n}$ $\frac{d}{dx} \frac{1}{x^n} = -\frac{n}{x^{n+1}}$ $\frac{d}{dx} \frac{1}{x^7} = -\frac{7}{x^8}$
 $\frac{d}{dx} \frac{1}{x^8} = -\frac{8}{x^9}$

دگرگونی سبب شمرده شود:

- $\frac{d}{dx} \frac{1}{x^2} = -\frac{2}{x^3}$
- $\frac{d}{dx} \frac{1}{x^3} = -\frac{3}{x^4}$
- $\frac{d}{dx} \frac{1}{x^4} = -\frac{4}{x^5}$
- $\frac{d}{dx} \frac{1}{x^5} = -\frac{5}{x^6}$
- $\frac{d}{dx} \frac{1}{x^6} = -\frac{6}{x^7}$
- $\frac{d}{dx} \frac{1}{x^7} = -\frac{7}{x^8}$
- $\frac{d}{dx} \frac{1}{x^8} = -\frac{8}{x^9}$
- $\frac{d}{dx} \frac{1}{x^9} = -\frac{9}{x^{10}}$
- $\frac{d}{dx} \frac{1}{x^{10}} = -\frac{10}{x^{11}}$
- $\frac{d}{dx} \frac{1}{x^{11}} = -\frac{11}{x^{12}}$
- $\frac{d}{dx} \frac{1}{x^{12}} = -\frac{12}{x^{13}}$
- $\frac{d}{dx} \frac{1}{x^{13}} = -\frac{13}{x^{14}}$
- $\frac{d}{dx} \frac{1}{x^{14}} = -\frac{14}{x^{15}}$
- $\frac{d}{dx} \frac{1}{x^{15}} = -\frac{15}{x^{16}}$

