

$$\frac{-60d}{24d^4} = \left(\frac{-60}{24}\right) \left(\frac{d^1}{d^4}\right) = \frac{-5}{2} \cdot d^{1-4} = \frac{-5}{2} \cdot d^{-3} =$$
$$\frac{-5}{2} \cdot \frac{1}{d^3} = \frac{-5}{2d^3}$$