

$$= \frac{1}{9} \int_{0}^{3} (2\alpha x^{2} - x^{3}) dx = \frac{1}{9} \left[ 2\alpha \frac{x^{3}}{3} - \frac{2\zeta^{4}}{4} \right]_{0}^{3}$$

$$= \frac{1}{9} \left[ \frac{2\alpha}{3} \left( 2\alpha \right)^{3} - 0 \right] - \frac{1}{4} \left( (2\alpha)^{4} - 0 \right) \right]$$

$$= \frac{1}{9} \left[ \frac{16\alpha^{4}}{3} + \frac{16\alpha^{4}}{3} \right] \left[ \frac{16\alpha^{4}}{3} + \frac{16\alpha^{4}}{3} \right] \left[ \frac{16\alpha^{4}}{3} + \frac{16\alpha^{4}}{3} \right]$$

$$\frac{1}{2} \left[ \frac{16a^{4}}{3} - \frac{16a^{4}}{4} \right] = \frac{16a^{4}}{2} \left[ \frac{1}{3} - \frac{1}{4} \right]$$

$$= 8a^{4} \left[ \frac{4-3}{12} \right] = \frac{3a^{4}}{3}$$

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