Calculus I

§ Definite integrals of rational power monomials

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Evaluate:
$$\int_{1}^{9} \frac{2t^3 + t^2\sqrt{t} - 1}{t^2} dt$$

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Example¹

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$$= 81 + 18 + \frac{1}{9} - 1 - \frac{2}{3} - 1 = \frac{868}{9}.$$