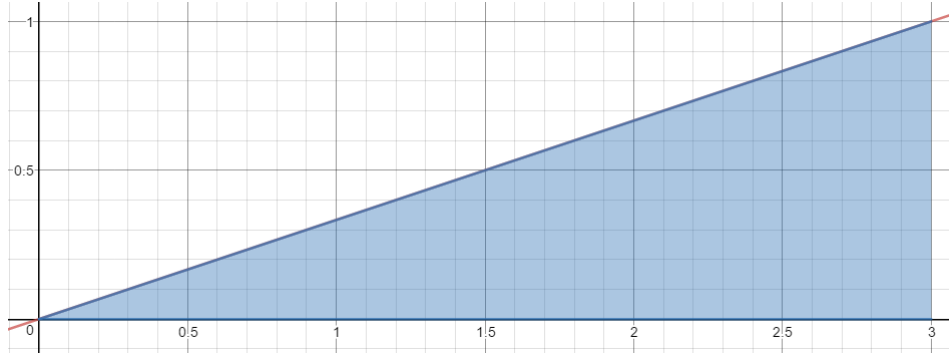


Integral Calculus lesson 4 - Finding the area under a curve

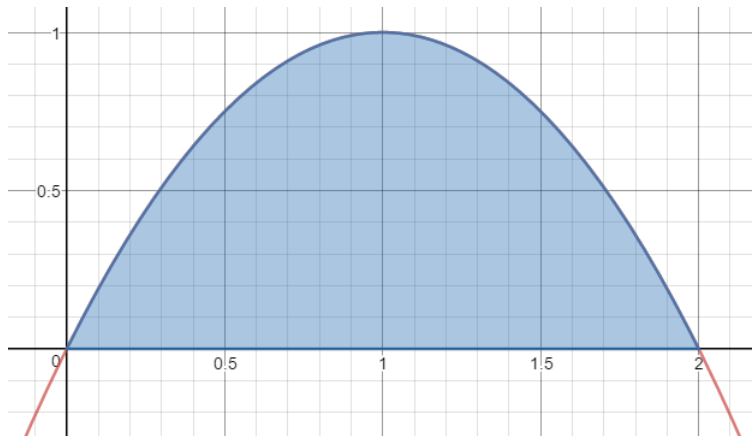
Magic Monk Tutorials

1 Evaluate the following:

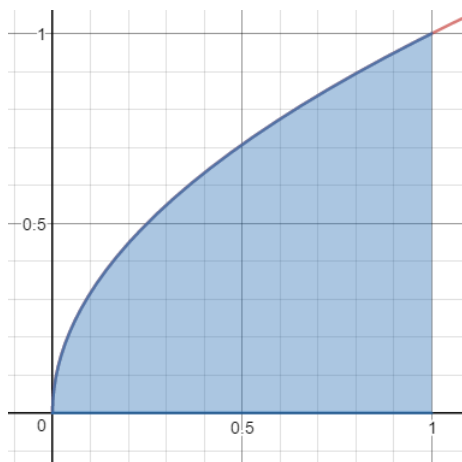
1.1 The shaded area of the curve (i.e. between 0 and 3) $y = \frac{x}{3}$



1.2 The shaded area of the curve $y = 2x - x^2$



1.3 The shaded area of the curve $y = \sqrt{x}$



2 Evaluate the following integrals:

2.1 $\int_0^1 3x \, dx$

2.2 $\int_0^2 x^2 + x \, dx$

2.3 $\int_{-1}^0 (x + 1)^2 \, dx$

2.4 $\int_1^2 1 \, dx$