


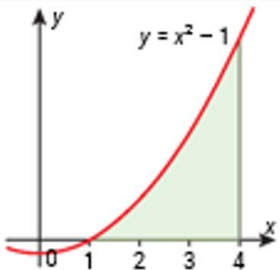
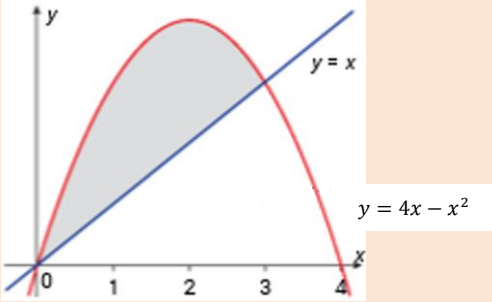


Assess your learning - Integration

Where is your learning at? Be Honest!	 red	 orange	 green	Revised for 10 Week	Revised for Summer
Can you answer the following questions?					
I can calculate the indefinite integral of an expression. E.g. Evaluate $\int (x^5 + 3x^4 + 2x) \cdot dx$					
I can calculate an integral by reversing differentiation. E.g. Differentiate $f(x) = \cos 2x$. Then find an antiderivative of $f'(x) = -2 \sin 2x$.					
I can solve problems involving speed, distance and acceleration. E.g. A particle moves in a straight line with acceleration given by $a(t) = 4 + 3t - t^2$. Find its velocity function $v(t)$.					
I can integrate trigonometric or exponential functions. E.g. Evaluate $\int \sin 3x \cdot dx$					
I can calculate a definite integral. E.g. Evaluate $\int_2^5 3x^2 - 7x \cdot dx$					
I can calculate the area between a curve and the x or y axis. E.g. Find the shaded area in the diagram below. 					
I can calculate the area between two curves. E.g. Find the area enclosed between the curves $y = 4x - x^2$ and the line $y = x$ in the diagram below. 					
I can find the average value of a function using integration. E.g. Find the average value of the function $y = 3x^2 - 7x$ on the interval $[0, 3]$.					