

Question			Answer	Mark	AO	Guidance
2			$\frac{ax^3}{3} - x^2 + 4x$	M1	3.1a	Attempt to integrate; ≥ 2 terms correct. Ignore any limits for this mark.
			$\left[\frac{ax^3}{3} - x^2 + 4x \right]_0^5 = \frac{125a}{3} - 25 + 20 \text{ } [-0 = 45]$	M1	1.1	Substitute limits 5 and 0 into their integral (i.e. any cubic and not the quadratic given), 0 may be implied
			$[125a = 150] \Rightarrow a = \frac{6}{5} \text{ or } 1.2$	A1 [3]	1.1	