


1st Feb	
Given $y = 4x^5 + \frac{4}{x^3}$ Find $\frac{dy}{dx}$	 Corbettm0ths
Express $2x^2 - 6x + 7$ in the form $a(x + b)^2 + c$	
Solve the equation $x^4 - 4x^2 + 3 = 0$	
A shipyard builds ships over 50 years, starting in year 1961 (year 1) and finished in year 2010 (year 50) The number of ships built each year forms an arithmetic sequence with first term a and common difference d . In 1970, 592 ships were built. In 2000, 232 ships were built.	Find a and d
Calculate the total number of ships built.	