

Higher – R&C HW 2

1. Solve the equation $3\cos 2x^\circ + \cos x^\circ = -1$ in the interval $0 \leq x \leq 360^\circ$ 5
2. Find p if $(x+3)$ is a factor of $x^3 - x^2 + px + 15$ 3
3. Show that $(x+3)$ is a factor of $x^3 - 3x^2 - 10x + 24$ and hence factorise $x^3 - 3x^2 - 10x + 24$ fully. 4