Factors

1	Show that $(x - 2)$ is a factor of $x^3 + x^2 - 10x + 8$ and hence factorise fully.
2	Show that $(x - 4)$ is a factor of $x^3 - 4x^2 - 9x + 36$ and hence factorise fully.
3	Show that $(x + 2)$ is a factor of $x^3 + 4x^2 + x - 6$ and hence factorise fully.
4	Show that $(x + 1)$ is a factor of $x^3 - 6x^2 + 3x + 10$ and hence factorise fully.
5	Show that $(x - 2)$ is a factor of $2x^3 - 7x^2 + 7x - 2$ and hence factorise fully.
6	Show that $(x + 4)$ is a factor of $3x^3 + 14x^2 + 7x - 4$ and hence factorise fully.
7	Show that $(x + 3)$ is a factor of $x^3 + 3x^2 - 25x - 75$ and hence factorise fully.
8	Show that $(x - 3)$ is a factor of $4x^3 - 21x^2 + 29x - 6$ and hence factorise fully.
9	Show that $(x - 1)$ is a factor of $8x^3 - 14x^2 + 7x - 1$ and hence factorise fully.