

1) For  $p(x) = 2x^4 + 7x - 7$ , find  $p(-3)$  using the remainder theorem

2) For  $p(x) = 3x^5 - 7x^4 + 9x^3 + x^2 - 2x + 10$ , find  $p(1)$  using the remainder theorem

3) For  $p(x) = 2x^8 - 3x^6 + x^4 - x^2 + 1$ , find  $p(-1)$  using the remainder theorem

5) One root of

$$x^3 - 3x^2 + 10x - 30 = 0$$

is 3. Find the others.

4) One root of

$$10x^3 - 23x^2 + 5x + 2 = 0$$

is  $\frac{-1}{5}$ . Find the others.

6) Two roots of

$$2x^4 - 3x^3 - 15x^2 - 17x - 12$$

are 4 and  $\frac{-3}{2}$ . Find the others.