

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.