Basic Math - Second lesson Homework

Caboara

1   Homework

We want to know the number of real roots of

1. $p_1(x) = x^3 + x + 3$ [Answer:1]

2. $p_2(x) = 2x^3 - x^2 - 2$ [Answer:1]

3. $p_3(x) = x^4 - x - 2$ [Answer:2]

4. $p_4(x) = x^4 - x^3 - 1$ [Answer:2]

5. $p_5(x) = x^5 - x - 1$ [Answer:1]

6. $p_6(x) = x^{16} - 1$ [Answer:2]

7. $p_6(x) = x^{17} - 1$ [Answer:1]

Solve at least three exercises and send your solutions, with all the comoutations step by step, by email to `massimo.caboara@unipi.it` *WITH FCS IN THE MESSAGE SUBJECT*, and *NO LATER THAN TUESDAY EVENING*