Polynomials, Division by binomial

Procedure

      Use the long division algorithm

Find the following quotients

1. $x+3\overline{)x^2+7x+12}$

2. $x+5\overline{)x^2+9x+30}$

3. $x+2\overline{)x^2+9x+14}$

4. $x-2\overline{)x^2+x-6}$

5. $x+2\overline{)x^2-4x-12}$

6. $x-6\overline{)x^2-10x+24}$

7. $x-5\overline{)x^2-8x+15}$

8. $\dfrac{x^2-x-6}{x+2}$

9. $2x+3\overline{)6x^2+11x+3}$

10. $3x-1\overline{)15x^2+7x-4}$