1) Check if (x + 5) is a factor of the given polynomial $5x^3 + x^2 - 7x - 5$.

2) Evaluate f(x) at x = 1, by synthetic division.

$$f(x) = x^4 - 3x^3 + 5x^2 + 4x - 5$$

3) Check if (x - 4) is a factor of the given polynomial $x^3 + x^2 - 16x - 16$.

4) Evaluate f(x) at x = -3, by synthetic division.

$$f(x) = x^3 - 3x^2 + 2x + 2$$

5) x + 3 is a factor of the polynomial $x^3 - 8x^2 - 9x + 72$. Find the other factors.

6) If y - 2 is a factor of the polynomial, then factor the polynomial, $4y^3 - 8y^2 - 9y + 18$ completely.

7) a + 7 is a factor of the polynomial $36a^3 + 312a^2 + 445a + 175$. Find the other factors.

8) If m + 20 is a factor of the polynomial, then factor m^3 + $21m^2$ - 400 completely.

9) If the product of three binomials is $x^3 + 3x^2 - 10x - 24$. If one is x + 2, what are the other two binomials?