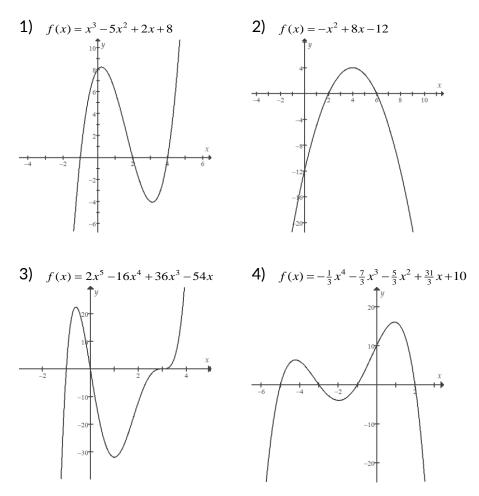
Name:

Zeros of Polynomial Functions

- 1) Solve the equation $f(x) = x^4 29x^2 + 100 = 0$
- 2) 1) Find all the factors of $p(x) = 6x^3 17x^2 + 11x 2$
 - 2) Hence find all the solutions to $6x^3 17x^2 + 11x 2 = 0$
- 3) The function f is defined by $f(x) = x^3 7x 6$
 - 1) Use the factor theorem to show that (x-3) is a factor of f(x)
 - 2) Write f(x) in the form of $f(x) = (x-3)(ax^2+bx+c)$
 - 3) Solve f(x)=0
 - 4) Use your solution to f(x)=0 to write down the solutions to the equation f(x+1)=0
- 4) Determine graphically the real zeros of the polynomial functions



- 5) Show that (x 2) is a factor of $x^3 + 2x^2 5x 6$, and find the other two factors
- 6) Show that (x 3) is a factor of $2x^3 3x^2 8x 3$, and find the other two factors

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