

Polynomial Functions & Equations

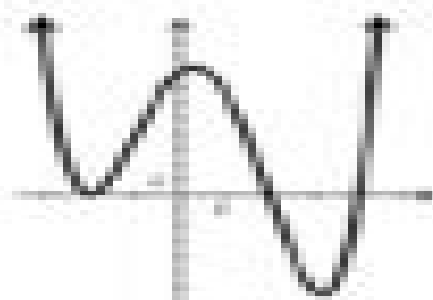
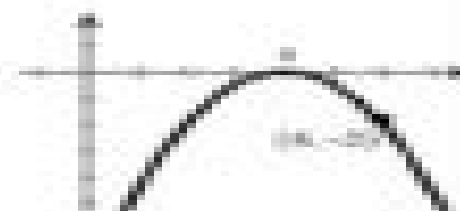
Subject content: polynomial functions & their graphs; factor & remainder theorems; fundamental theorem of algebra; solving polynomial equations & inequalities both graphically & algebraically; sum & product of the roots of a polynomial equation.

(continued on next page)

Exercises

Part I – questions 1–11, **ggg** calculator allowed

1. Consider a parabola (shown in diagram) that has a vertex at $(4, 0)$ and passes through the point $(5, -2)$. Find the equation of this parabola and write it in the form $y = ax^2 + bx + c$.



2. The graph of a quartic function (shown in diagram) has exactly three x-intercepts at $x = -2$, $x = 2$ and $x = 4$, and has a y-intercept at $y = 8$. Express the equation for this function in the form $y = a_1x^4 + a_2x^3 + a_3x^2 + a_4x + a_5$.

3. Given that $x = 2$ and $x = -3$ are roots of the polynomial function, $p(x) = (x - 2)(x^2 - 4x^2 - 3x + 6)$ find the remaining roots of p .
4. Given that $x^2 + 4x^2 + x + 27$ is exactly divisible by both $x + 1$ and $x + 2$, find the value of a and the value of b .
5. Find a polynomial with integer coefficients of lowest degree having roots of $x = -\frac{1}{2}$ and $x = 2 + i$.
6. $x = 2$ is a factor of the polynomial $p(x) = x^3 + ax^2 + bx + 4$.
- (a) Show that $a + b = 5$.
- (b) Show that p can be written in factored form as $p(x) = (x - 2)(x^2 + px + q)(x + 4)$.
7. The polynomial $ax^2 + 4x^2 + ax + 36$ is divisible by $x^2 - 9$. Find the value of a and the value of x .
8. Write the function $p(x) = x^3 + 4x^2 - 3x + 2$ is divided by $(x - 2)$ in factors that show division in which it is divided by $(x + 1)$. Find the value of k .

Polynomial Functions Tesccc Answers

Joacim Rocklöv



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web the flyback converter represents very popular structure found in the market due to its simplicity ease of design and low cost and the flyback operated in current mode is the most widely used converter having first order behavior in the low frequency portion the ucc28740 is a flyback power supply controller

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web aug 26 2012 how it works as shown below as a simple circuit with the two most important components the oscillator circuit uses a transistor q1 2sc828 is base works with three capacitors c1 c2 c3 and three resistor r1 r2 vr1 to produce a