"Gift" Questions and how to "open" them

Common Wording	Main Topic Assessed
Find the equation of the tangent to the curve	Differentiation
Find the rate of change of the function	Differentiation
Find the gradient of the tangent to the curve at the point	Differentiation
Show that the function is increasing / decreasing	Differentiation
Find the stationary points of the curve $f(x) =$	Differentiation
Show that (x – a) is a factor of	Synthetic Division
makes an angle of x° with the positive direction of the x-axis	m = Tanθ
Find the area between the curve	Integration
Rate of change (given), find the function	Integration
Find the equation of the tangent to the circle	Centre , m(rad); m(rad) x m(tan) = -1
Perpendicular vectors	u.v = 0
Find the point(s) of intersection of the line and curve/circle	Simultaneous equations (subs.)
If Sinx =, find Sin2x / Cos2x, etc	Exact values
Show that (line) is a tangent to the curve / circle	Simultaneous equations (subs.)