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$1 = r \cos(\theta) \cos(\phi) + bx + c$ where we have used the formula $\cos A$

$\cos B - \sin A \sin B = \cos(A + B)$ Differentiating again and

simplifying as before, $y^2 = r^2 \cos^2(\theta) + bx + c$. Similarly y .

$3 = r^3 \cos^3(\theta) + bx + c$ Thus $y = r \cos(\theta)$

$\cos(\theta) = \frac{bx + c}{r^3}$ Where $r = \sqrt{a^2 + b^2}$ and $\theta = \tan^{-1}(b/a)$.

Engineering Mathematics – I

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