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1.1.2 General Equation of the
circle: The General Equation of
the circle is $x^2 + y^2 + 2gx + 2fy + c = 0$ ----- (2) Add g^2, f on both
sides $x^2 + 2gx + g^2 + y^2 + 2fy + f^2$

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$$\begin{aligned} z &= g + f - c(x + g)^2 + (y + f) = \\ &= g + f - c[x - (-g)][y - (-f)] \end{aligned}$$

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$= \hat{y} - 2\hat{z}$, calculate $A \times (B \times C)$ and $A \cdot (B \times C)$. (20 points)

2. The vector field F is given by $F = yz\hat{x} + xy\hat{y} + xz\hat{z}$. (a) Calculate $\nabla \cdot F$ and $\nabla \times F$. (20 points) (b)

Calculate $\nabla \times (\nabla \times F)$ (10 points) 3.

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