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Add  $g^2, f$  on both sides  $x^2 + 2gx + g^2 + y^2 + 2fy + f^2 = g^2 + f^2 - c$

$(x + g)^2 + (y + f)^2 = g^2 + f^2 - c$

$[x - (-g)]^2 + [y - (-f)]^2 = g^2 + f^2 - c$

$[x - (-g)]^2 + [y - (-f)]^2 = g^2 + f^2 - c$

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The vector field  $F$  is given by  $F = yz\{\hat{x} + xy\hat{y} + xz\hat{z}\}$ . (a) Calculate  $\text{Div} F$  and  $\text{Curl} F$ . (20 points) (b) Calculate  $\text{Div} (\text{Curl} F)$  (10 points) 3.

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