Answer on Question #57410 – Math – Calculus

Question

Write each equation in standard form.

 $x^2 + y^2 - 8x + 10y + 15 = 0$

Solution

$$x^{2} + y^{2} - 8x + 10y + 15 = 0$$
$$x^{2} - 8x + 16 + y^{2} + 10y + 25 + 15 - 16 - 25 = 0$$
$$(x - 4)^{2} + (y + 5)^{2} = 26$$

In the plane Oxy this equation represents a circle, in the space Oxyz this equation represents a cylinder.

<u>Answer:</u> $(x - 4)^2 + (y + 5)^2 = 26.$

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