No calculators, cell phones, computers, notes, etc.

Circle your answer. Make your work correct, complete and coherent.

The quiz is worth 5 points. The solutions will be posted on my website later today.

Quiz 9, October 2, 2019

Which of the following pictures is the graph of

$$9x^2 + 4y^2 + 2z^2 = 36.$$

ANSWER: Each cross section (when x = 0, when y = 0, and when z = 0 is an ellipse. The graph is an ellipsoid. It is either (c) or (d). Our graph includes the points (2,0,0), (0,3,0), and $(0,0,\sqrt{18})$. So our graph is small in the x-direction but large in the z-direction. Our graph must be (c) rather than (d).





