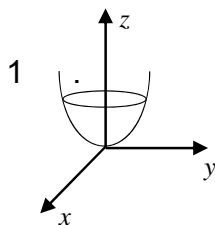
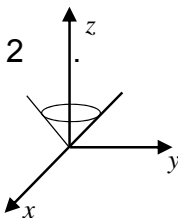


1. Match the graphs.

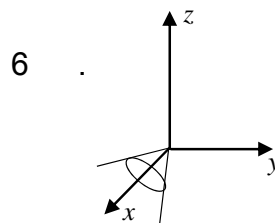
_____ a) $y^2 + z^2 = 4$



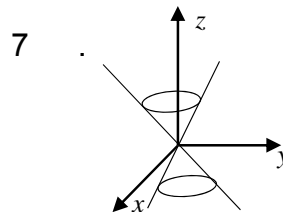
_____ b) $x^2 + y^2 + 4 = z^2$



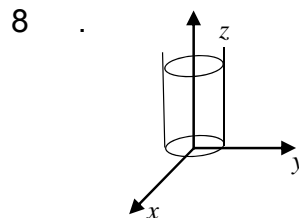
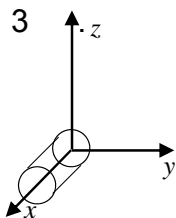
_____ c) $x^2 + y^2 = z^2$



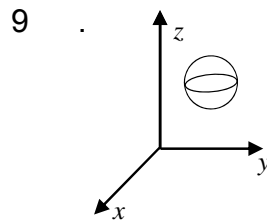
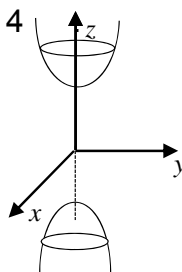
_____ d) $x^2 + y^2 - z = 0$



_____ e) $x = \sqrt{y^2 + z^2}$



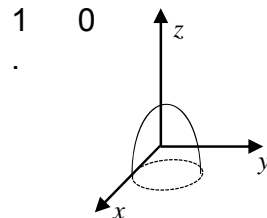
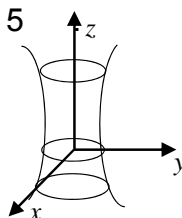
_____ f) $x^2 - 4x + y^2 - 6y + z^2 - 4z = 0$



_____ g) $z = \sqrt{x^2 + y^2}$

_____ h) $x^2 + y^2 - 9 = z^2$

_____ i) $x^2 + y^2 - 4 + z = 0$



_____ j) $x^2 + y^2 = 9$

2. Find the point of intersection of the lines. Is the intersection perpendicular?

$$\begin{array}{ll} x = 1 + t & x = 2 - s \\ y = 2 - 2t & y = -3 + s \\ z = 3t & z = 7 + s \end{array}$$

3. Find the equation which contains the two lines from above.