Math 3330 - Quiz 2

Name:_____

1. Graph the following in $\mathbb{R}^3$.
   (a) $z = 2$
   (b) $x^2 + y^2 + z^2 = 8$
   (c) $x^2 + y^2 = 4$ For this one first graph $x^2 + y^2 = 4$ in $\mathbb{R}^2$ then use that to graph in $\mathbb{R}^3$
   (d) $z = y^2$ For this one first graph in $\mathbb{R}^2$ then use that to graph in $\mathbb{R}^3$
   (e) the intersection of $x^2 + y^2 = 1$ and $z = 2$

12.2: 13, 15, 31 , 26

12.3: 8, 9, 12, 22, 30

12.4: 6,9,29,33,44,47