

MATH 2415 TEST 2

Name: _____

Testing conditions:

- 50-minute time limit;
- notes, books, and calculators are allowed;
- inter-student communication, telecommunication, and internet access are not allowed.

Exercise	Point Possible	Score
1	50	
2	50	
Total	100	

1. [50 points] Find an equation for the plane tangent to the surface $z = y/\sqrt{x}$ at $(x, y, z) = (9, -12, -4)$.

2. [50 points] Consider the parametric curve with position vector $\mathbf{r}(t) = \langle \cos(2t), \sin(3t), \sin(4t) \rangle$. What is the radius of curvature at $t = 0$?