| Makeup for Ex | |
|----------------------------|---|
| Fall 2013 | Name |
| Odenthal | |
| | ons: Please write neatly. There is 1 problem on 1 page. ar work! Explain your answers. |
| launched fr radians wit | em has three parts. Each part refers to a projectile that is rom a platform 24 feet above the ground at an angle of $\pi/4$ h an initial speed of 192 feet per second. Ignore wind resistance. onvenient coordinate system. |

(a) (15 points) Find the velocity $\mathbf{v}(t)$ of the projectile.

(b) (15 points) Find the position $\mathbf{r}(t)$ of the projectile.

the projectile.

(c) (15 points) Find the maximum height above the ground reached by