Line/plane intersections and angles

Name: _____ Date: _____

6 questions | 12 marks

1. Intersect $t(1,1,1)$ with x+y+z=6. [2 marks]

2. Does (0,0,1)+t(1,0,0) meet z=0? [2 marks]

3. Find the smaller angle between x=0 and x+y=0. [2 marks]

4. Find the smaller angle of direction (0,0,1) with z=2. [2 marks]

5. Find the intersection line of x+y=1 and z=2. [2 marks]

6. Find k so $(0, 0, k) + t(1, -1, 0)$ lies in x+y+z=3. [2 marks]