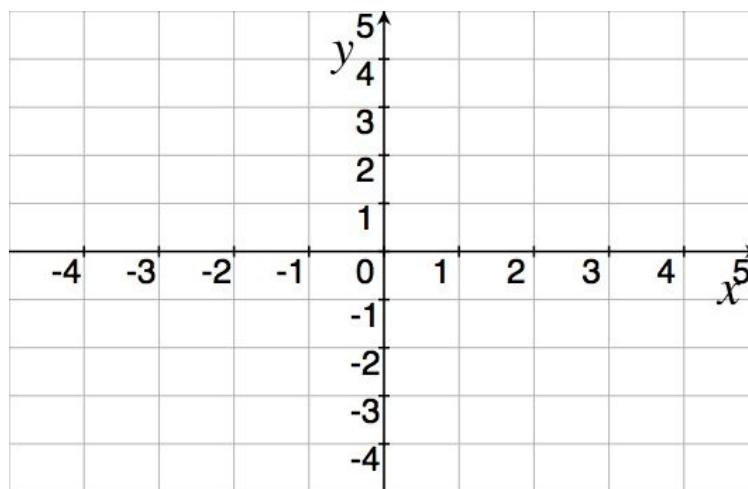# Quiz 4

Show *all* your work. No credit is given without reasonable supporting work. There are *two* sides to this quiz.

1. (§1.1 #77) Consider the points (x, y) that are the same distance from the x-axis as to the y-axis.

   (a) [1] Sketch the points described.

   (b) [2] Find the equation for the points.

2. [1] (§4.1 #12) Draw $\dfrac{5\pi}{8}$ rad.

3. [1] (WebHW16 #20) Let θ be an angle such that $\tan(\theta) < 0$ and $\cos(\theta) < 0$. Which quadrant is θ in?

4. [2] (Circle Worksheet) Find the point(s) on the unit circle whose first coordinate is $\dfrac{1}{2}$. Indicate how you found your answers.

5. [3] (WebHW16 #23) Given that $\sin(\phi) = \frac{24}{25}$ and $\tan(\phi) > 0$, find $\tan(\phi)$ exactly.