Name _____
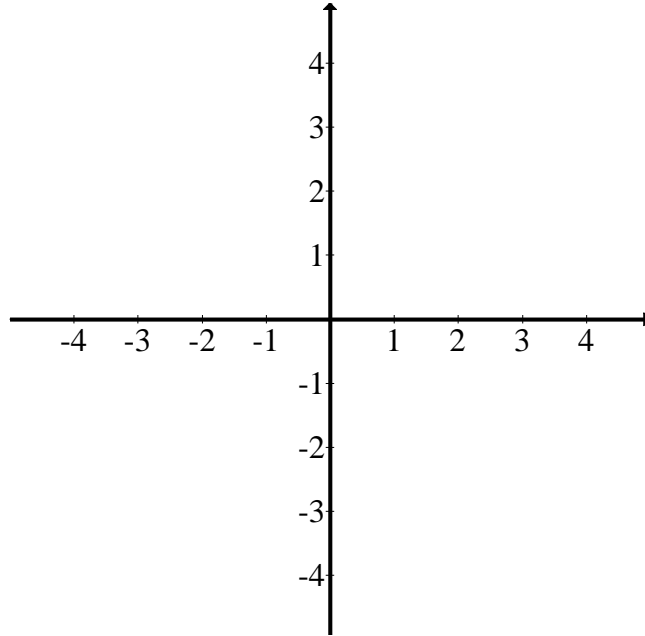
1) On the axis below illustrate the fact that $\sin(22.6^o) = \frac{5}{13}$ and $\cos(22.6^o) = \frac{12}{13}$.

2) Solve for θ in the equation $\tan(\theta) = \frac{1}{\sqrt{3}}$.

3) An observer sees two plans in the sky at different angles as shown below. He knows that the planes are both flying at an elevation of 20,000 feet. How far apart are the planes?