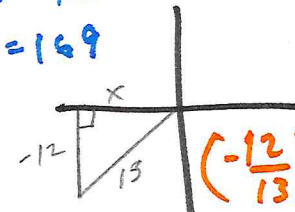
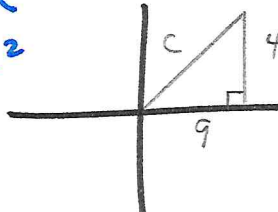


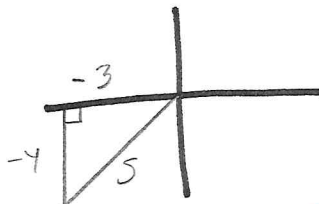
7. $\sin \theta = \frac{-12}{13}$ and $\tan \theta$ is positive.

8. $\tan \theta = \frac{4}{9}$ and $\cos \theta$ is positive.

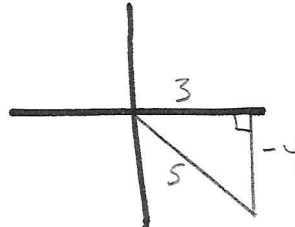
$x^2 + (-12)^2 = 13^2$
 $x^2 + 144 = 169$
 $x^2 = 25$
 $x = -5$

 $\cos = \frac{-5}{13}$
 $\tan = \frac{-12}{-5} = \frac{12}{5}$
 $\left(\frac{-12}{13}\right)^2 + \left(\frac{-5}{13}\right)^2 = 1$
 $\frac{144}{169} + \frac{25}{169} = 1$
 $\frac{169}{169} = 1 \checkmark$

$4^2 + 9^2 = c^2$
 $16 + 81 = c^2$
 $97 = c^2$
 $\sqrt{97} = c$

 $\cos = \frac{9}{\sqrt{97}} = \frac{9\sqrt{97}}{97}$
 $\sin = \frac{4}{\sqrt{97}} = \frac{4\sqrt{97}}{97}$
 $\left(\frac{4\sqrt{97}}{97}\right)^2 + \left(\frac{9\sqrt{97}}{97}\right)^2 = 1$
 $\left(\frac{16 \cdot 97}{97 \cdot 97}\right) + \frac{81 \cdot 97}{97 \cdot 97} = 1$
 $\frac{16}{97} + \frac{81}{97} = 1$
 $\frac{97}{97} = 1 \checkmark$

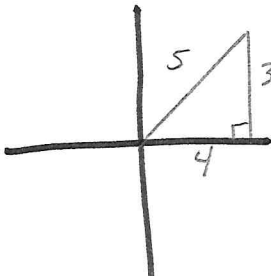
9. Given $\sin \theta = \frac{-4}{5}$, what are all possible values for $\cos \theta$ and $\tan \theta$?


 $\cos = -\frac{3}{5}$
 $\tan = \frac{4}{3}$

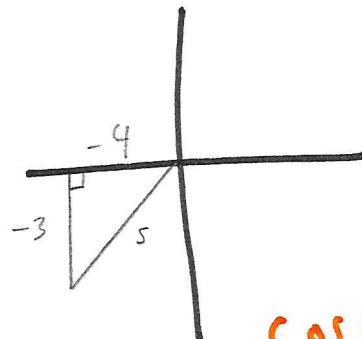
or


 $\cos = \frac{3}{5}$
 $\tan = -\frac{4}{3}$

10. Given $\tan \theta = \frac{3}{4}$, what are all possible values for $\cos \theta$ and $\sin \theta$?


 $\cos = \frac{4}{5}$
 $\sin = \frac{3}{5}$

or


 $\cos = -\frac{4}{5}$
 $\sin = -\frac{3}{5}$