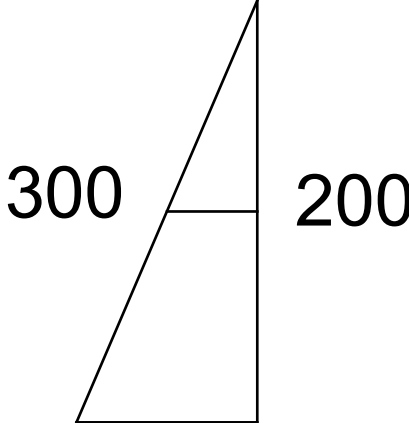


Homework 8 Math 48C Mitchell Schoenbrun
 9.1 P. 623 #1, 4, 7, 8, 24-28, 31, 32

<p>1. $\sin = 4/5$ $\cos = 3/5$ $\tan = 4/3$ $\csc = 5/4$ $\sec = 5/3$ $\cot = 4/3$</p>	<p>4. $\sin = 1/\sqrt{5}$ $\cos = 2/\sqrt{5}$ $\tan = 1/2$ $\csc = \sqrt{5}$ $\sec = \sqrt{5}/2$ $\cot = 2$</p>
<p>7. $\sin(A) = 4/5$ $\cos(B) = 4/5$ $\sin(B) = 3/5$ $\cos(A) = 3/5$</p>	<p>8. $\sin(A) = 3/5$ $\cos(B) = 3/5$ $\sin(B) = 4/5$ $\cos(A) = 4/5$</p>
<p>24. $\theta = \cos^{-1}\left(\frac{1}{6}\right) \approx 80.4^\circ$</p>	<p>25. $\theta = \tan^{-1}\left(\frac{4}{5}\right) \approx 38.7^\circ$</p>
<p>26. $\theta = \sin^{-1}(2.5/6) \approx 24.6^\circ$</p>	<p>27. $\theta = \cos^{-1}\left(\frac{4}{5}\right) \approx 36.9^\circ$</p>
<p>28. $\theta = \tan^{-1}\left(\frac{4}{3}\right) \approx 53.1^\circ$</p>	
<p>31. $v = \frac{d}{t} = \frac{500 \sin(66^\circ) ft}{10 \text{ sec}} \times \frac{60 \text{ mph}}{88 \text{ ft/sec}} \approx 31 \text{ mph}$ <p>Not Speeding!</p> </p>	<p>42.</p>  <p>angle of elevation = $\sin^{-1}\left(\frac{200}{300}\right) \approx 41.8^\circ$</p> <p>crossbar = $\frac{\sqrt{300^2 - 200^2}}{2} \approx 111.8 \text{ ft}$</p>