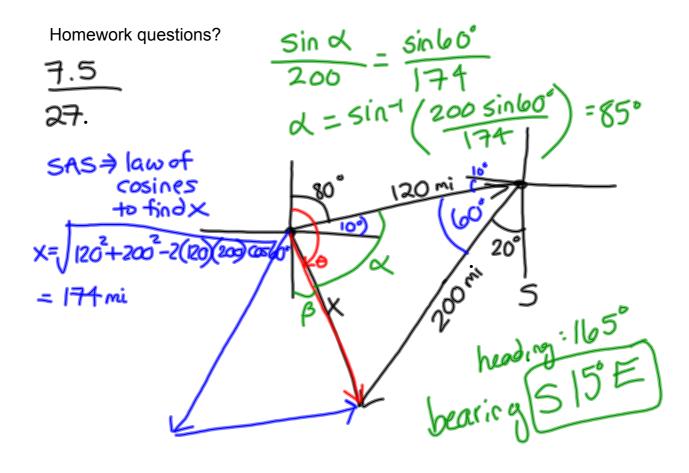
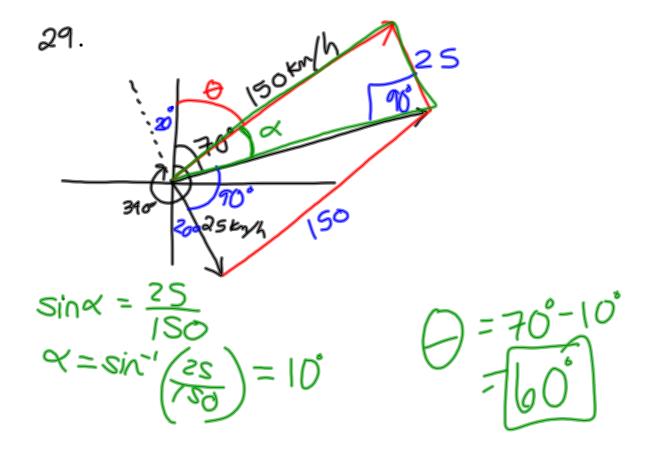
<u>Review</u>: Angelica rides her magical bike at a rate of 120 miles per hour. The angular speed of each wheel is 528 revoluons per minute. What is the radius of a wheel, in inches? $\bigvee = \Gamma \omega$: $\Gamma = V$

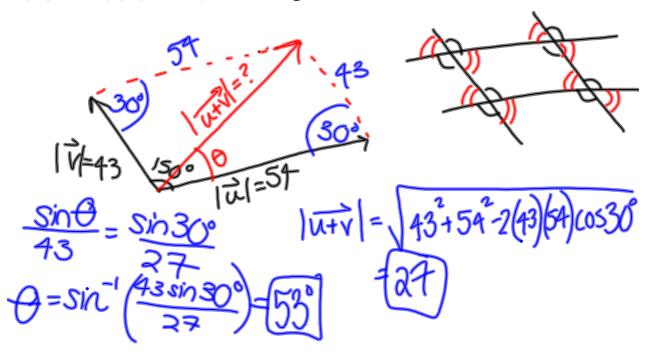
What is the radius of a wheel, in thickes?
$$V = V$$
 : $V = \frac{120 \text{ min}}{h}$; $W = \frac{528 \text{ rev}}{min}$; $V = \frac{7}{100}$ in V





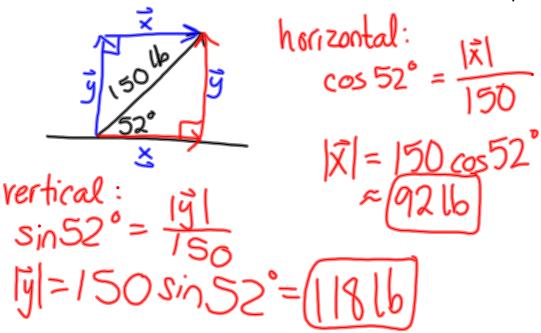
Applications from section 7.5

18. Find $|\vec{u} + \vec{v}|$ and the angle that $\vec{u} + \vec{v}$ makes with \vec{u} , given $|\vec{u}| = 54$, $|\vec{v}| = 43$, & the angle θ between \vec{u} & \vec{v} is 150° .



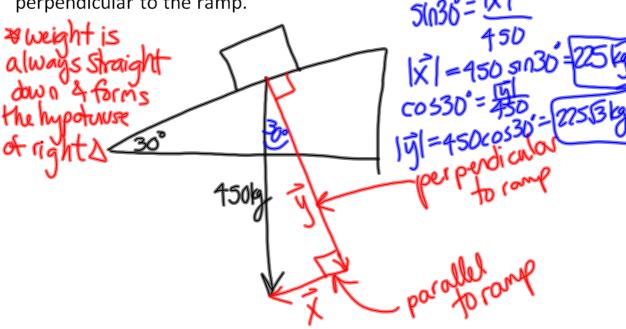
Resolving a vector into horizontal and vertical components

32. $|\vec{u}| = 150$ lb, inclined upward to the right at 52° from the horizontal. Resolve \vec{u} into horizontal and vertical components.



The object on a ramp problem

40. If a 450kg object is at rest on a ramp with a 30° incline, find the components of the force of the object's weight parallel and perpendicular to the ramp.



Homework:

Already assigned: Ch 5 Test (book), Ch 6 Test (book); 7.5 #27,29; 7.6 #1-7odd

7.5# 19,21,31,33,39,41

7.3 Handout: #37-44 all

Due Friday