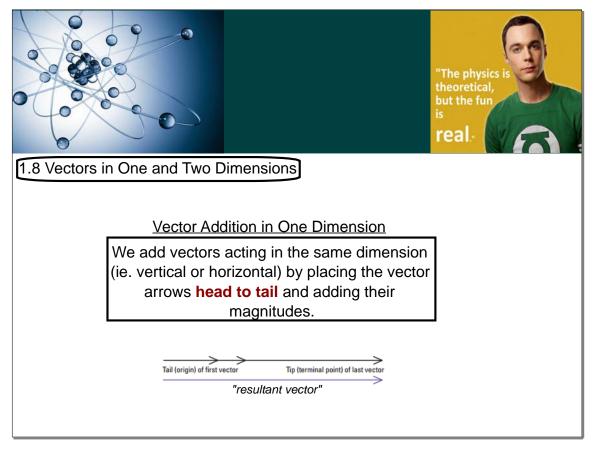
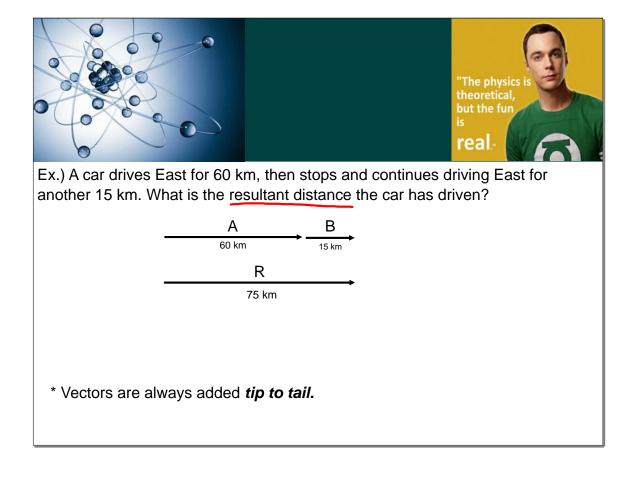
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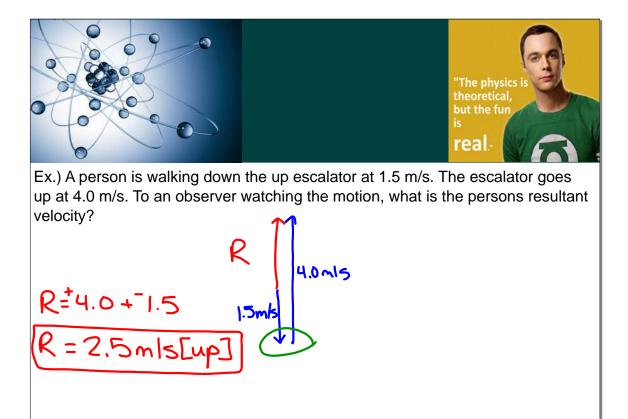


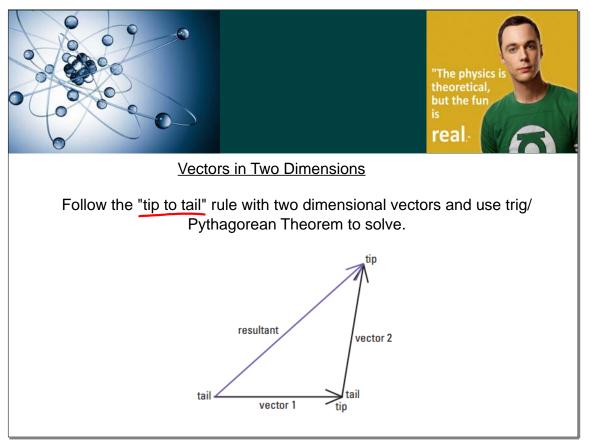


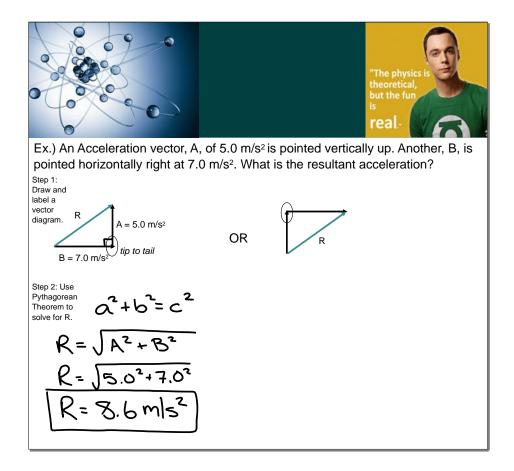
Ex.) An animal walks 15 m to the right, and then stops and walks 20 m left. What is the resultant displacement?

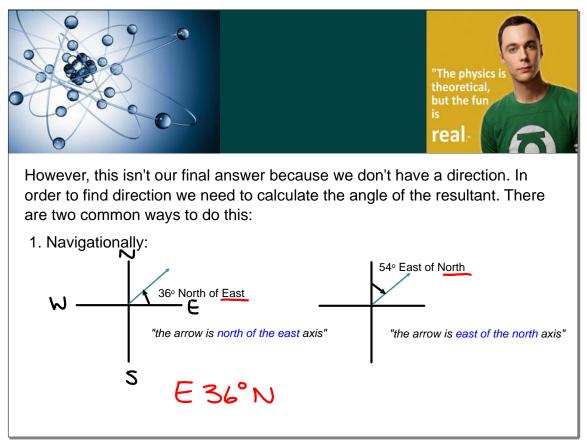
$$\frac{500}{200} \frac{150}{10} tip to tail$$

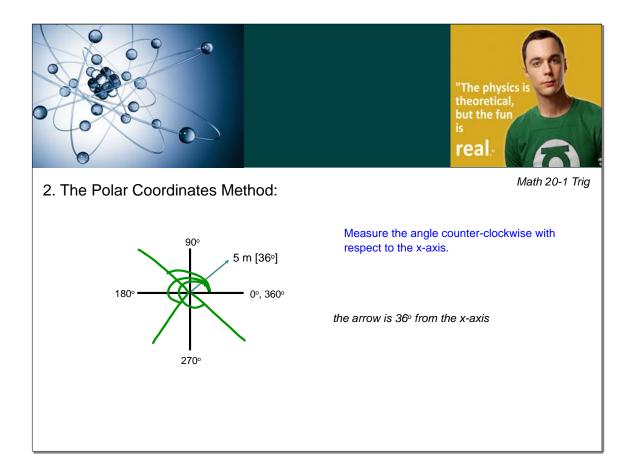
$$R = 15 + 720 = -5.0m$$
\*Note: The resultant is not drawn tip to tail. That's okay.



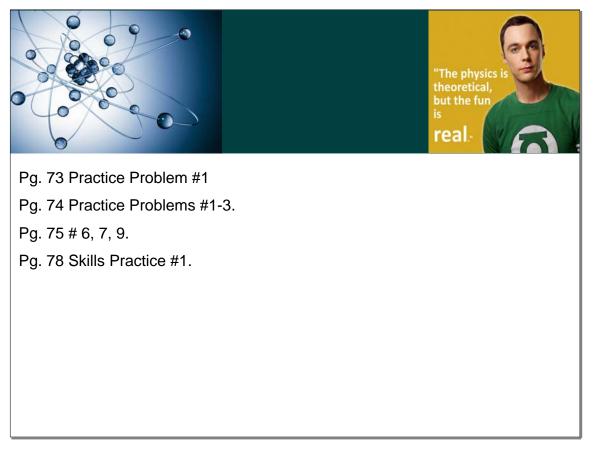


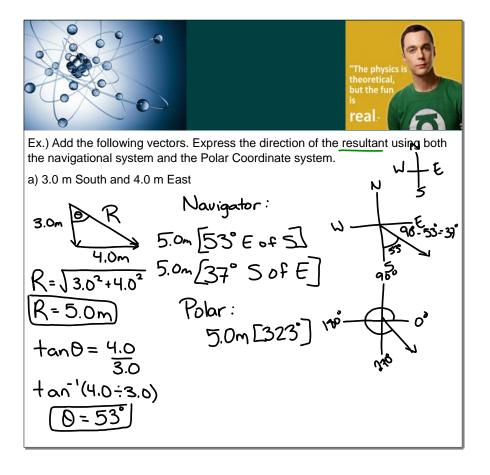


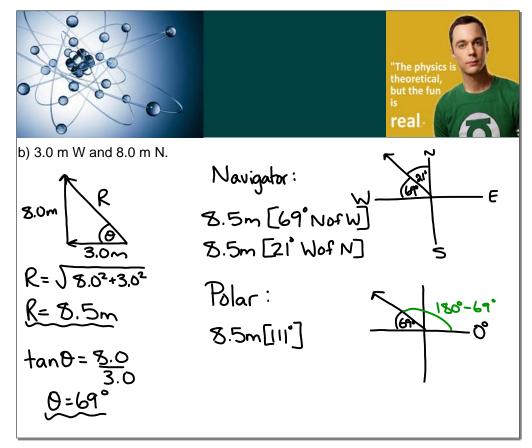


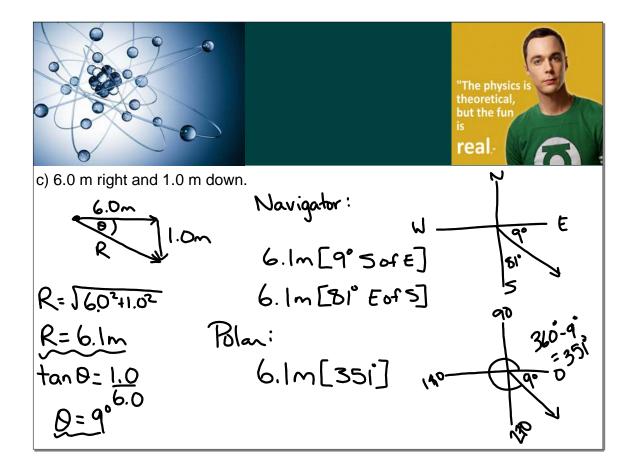


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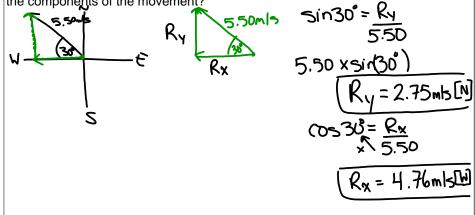


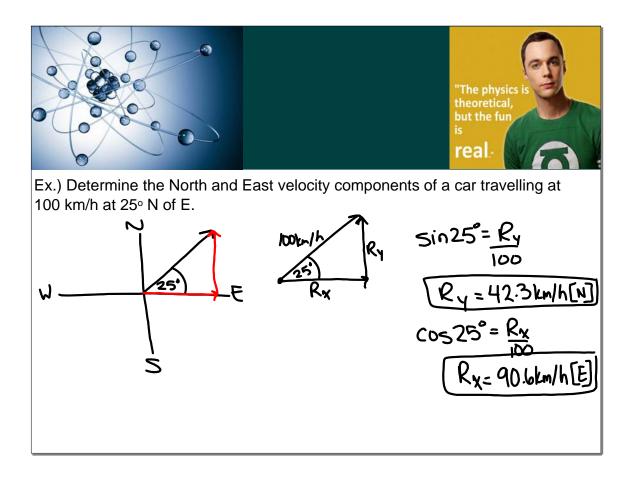




The process we have been practicing is taking two vectors and adding them together to find the resultant. Now we need to study how we start with the resultant and find the vector components.

Ex.) A crow flies at an angle of  $30^{\circ}$  N of W with a velocity of 5.50 m/s. What are the components of the movement?





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