

Before we begin, are there any questions from last day's work?

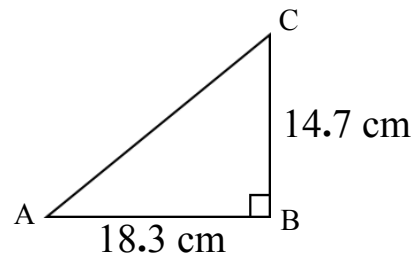
5.5.1 pp. 62-64 10-12, 15
pp. 70-73 6, 18 or 19, 22, 25

Today's Learning Goal(s):

By the end of the class, I will be able to:

a) distinguish between vector and scalar quantities.

Warm-up: Determine the measure of $\angle A$.



5.6.1: Introduction to Vectors

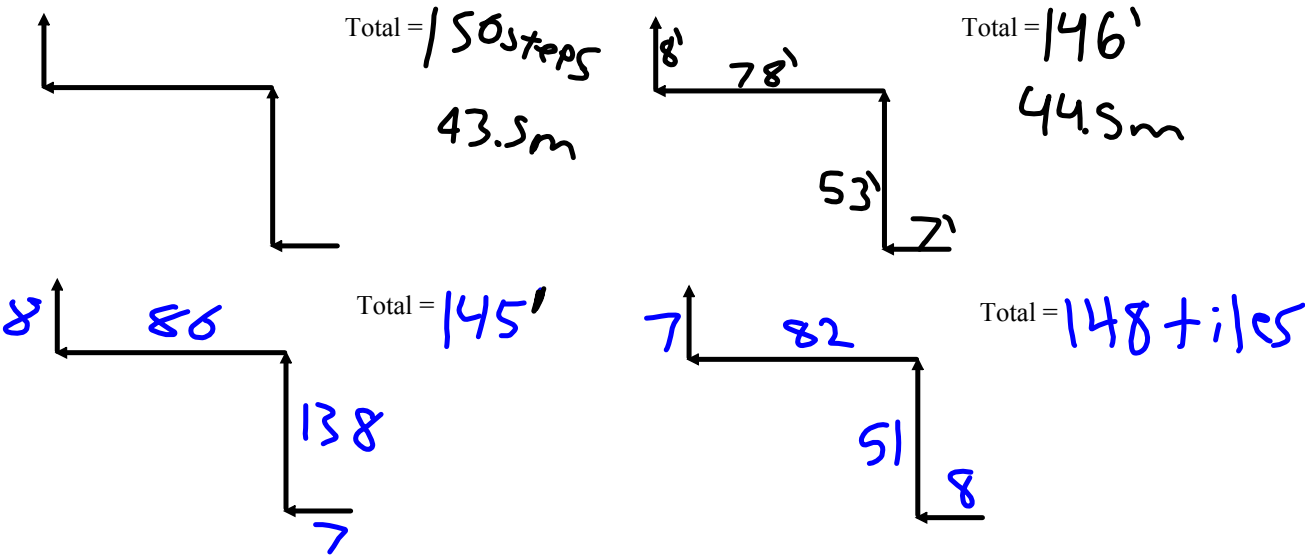
Date: _____

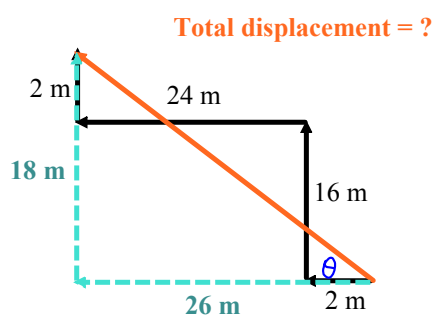
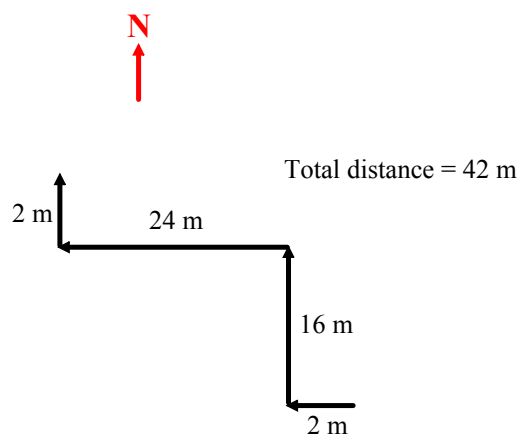
1. Using **PowerPoint (PPT 5.6.1)**, read through careers involving vectors,
and complete 5.6.2 next page (p.2)
2. Using powerpoint (PPT 5.6.1), discuss vectors versus scalars,
and complete 5.6.3
3. In groups of 4, complete 5.6.5. p.3
How far is it from our classroom to Room 2505 (SKY Radio Lab)?
4. If time, present/compare answers for 5.6.5 p.4
Homework: 5.6.6 Vector Analysis

5.6.2

Vectors and Language	Vectors in Sports	Vectors and Visuals
<p>Name the career where vectors are used?</p> <p>linguistics</p> <p>How are the vectors used in this career?</p> <p>mapping the interaction of words or bits of text</p> <p>improving: speech recognition software, and search engines</p>	<p>Name the career where vectors are used?</p> <p>aerodynamics</p> <p>How are the vectors used in this career?</p> <p>studying forces like wind and spin</p> <p>modifying the shapes, the car body, or the ball</p>	<p>Name the career where vectors are used?</p> <p>computer animation</p> <p>How are the vectors used in this career?</p> <p>creating movement effects, like wind and clouds</p>
<p>After listening and discussing the various careers, why would it be necessary for you to learn about vectors?</p>		

5.6.5 Results





$$|\vec{d}|^2 = 18^2 + 26^2$$

$$= 1000$$

$$|\vec{d}| = \sqrt{\quad}$$

$$\doteq 31.6227$$

$$\doteq 31.623 \text{ m}$$

$$\tan \theta = \frac{18}{26}$$

$$\theta \doteq 34.695^\circ$$

$$\doteq 34.70^\circ$$

..the displacement is 31.623 m W 34.7° N

or bearing 304.7°