#### Homework grades this week:

01: Read sections 5.3 and 5.4 in your textbook (and 5.2 if you haven't already) by Monday 22 Aug.

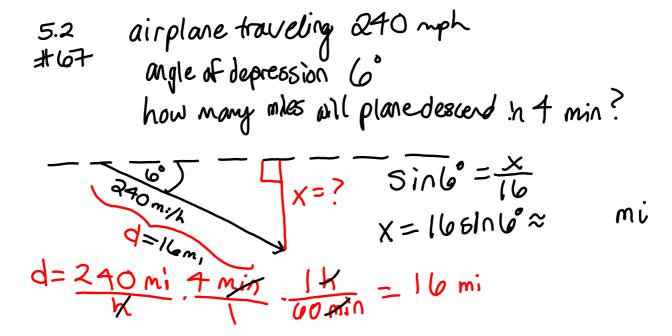
02: Complete at least 45 minutes of exercises on **Khan Academy** related to sections 5.2, 5.3, and 5.4 **by Friday**, 26 Aug; in addition, complete "Mastery Challenges" as often as they become available to you.

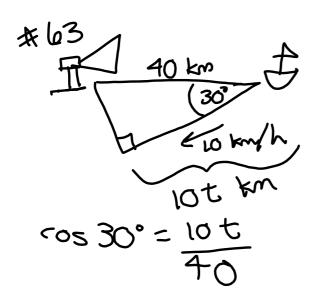
03: Textbook problems, mostly be completed in class and due Friday, 26 Aug.

- 5.2: #1-6 all; 15-41 odd; 59-75 odd (NO CALCULATOR!)
- 5.3: #1-35 odd; 37-48 all (NO CALCULATOR!); 61-68 all (NO CALCULATOR!)
- 5.4: #13-22 all (NO CALCULATOR!)

Test #1 - Next week! Fri, 9/2

Expect another quiz before the test.





$$10 + = 40 \cos 30^{\circ}$$
  
 $t = \frac{40 \cos 30^{\circ}}{10}$   
 $= 4 \cdot \frac{\sqrt{3}}{2}$   
 $t = 2\sqrt{3}$  hours  
past 1:00

# Khan Academy exercises for section 5.1:

arc measure

arc length

radians & degrees

radians & arc length

complementary & supplementary angles

multiple units word problems

convert units (metrics)

convert units word problems (metrics)

\_convert units (US customary)

convert units word problems (US customary)

### Khan Academy exercises for section 5.2:

Trigonometric ratios in right triangles

- Solve for a side in right triangles
- Solve for an angle in right triangles
- Right triangle word problems

## Khan Academy exercises for section 5.3-5.4:

- Trig values of special angles
- Use the Pythagorean identity

$$\cot \frac{3\pi}{4} = \cos \left(-\frac{2\pi}{3}\right) = \cos \left(-\frac{2\pi}{3}\right)$$

$$\sec \frac{7\pi}{4} = \sqrt{2}$$

$$\csc \frac{3\pi}{2} = -1$$

$$\tan \frac{7\pi}{6} = -1$$

Evaluate the following:

- 1. sin 135°
- 4. cot(-450°)= co+(-10)
- $2. \tan \frac{11\pi}{6}$
- 5.  $\cos \frac{2\pi}{3}$
- 3.  $\csc \frac{5\pi}{4}$
- 6.  $\cos 53\pi$

