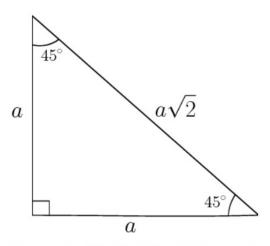
Good afternoon: warm up in notebooks Find the values of x and y in each. **HAVE DEVICE** WITH YOU FOR LATER 2. 1. 60° 30° 9.13 y 45° a sess in DS (today is bad, Th is good) a. 13 morrow after school **□ ↓** □

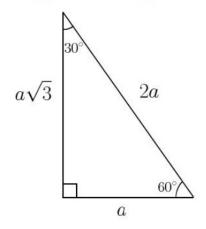
Assessments

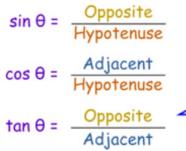
- look over what you missed...find a local expert at your table and learn from any mistakes:)
- HW needed: completed trig worksheet, notes from trig intro video

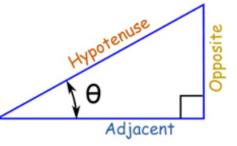


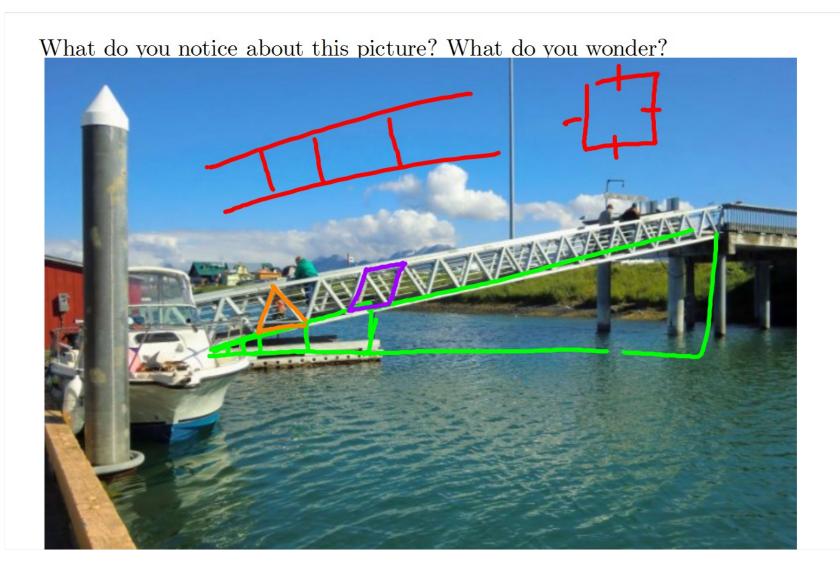


Special Right Triangles



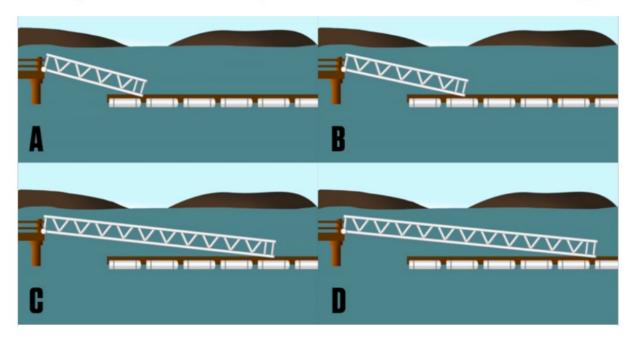






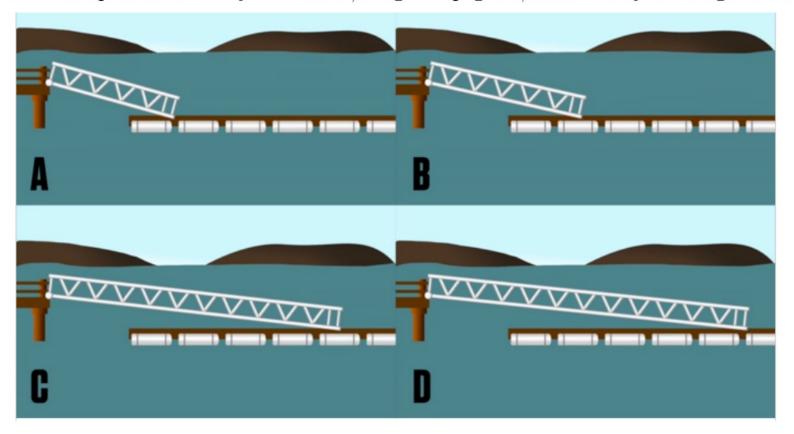
What questions could you ask about the following video?

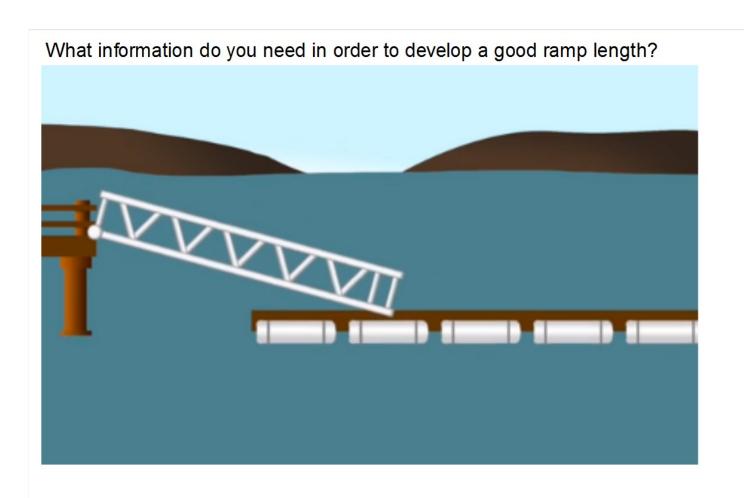
What questions could you ask about the following video?

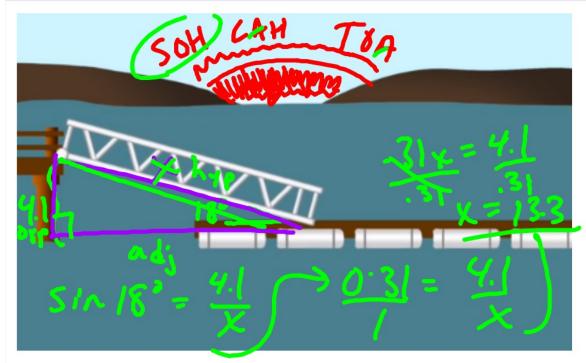


Questions raised?

Which ramp is best? Why is a short/long ramp good/bad? Tell your neighbors.







Maximum vertical displacement:

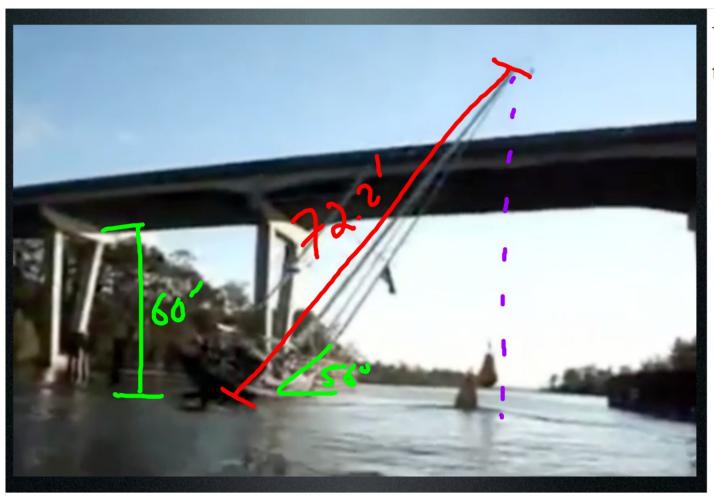
4.1 meters

Maximum angle at bridge: 18°

Find a good length of ramp to use.

We're gonna watch another short video. What do you notice? What do you wonder?





What do you need to know to solve this?

Mast length: 72.2 ft

Bridge clearance: 60ft

Angle of sway: 56°

Does it work???





Share with your face partner something you understand better now than before.

Trig Kahoot!

PLEASE USE YOUR REAL NAMES

Use your notebook to sketch out your ideas/calculations

Will need a calculator!

The questions are challenging! Don't just guess!

Trig Stack!

Start from the bottom...find the top!

Private Think Time Make Sense Persevere

Mathematical Practice

- 1. Make sense of problems and persevere in solving them.
- 2. Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- 4. Model with mathematics.
- 5. Use appropriate tools strategically.
 - 6. Attend to precision.
 - 7. Look for and make use of structure.
 - 8. Look for and express regularity in repeated reasoning.

Xuse 3 decimal places for all trigonometric ratios and length!

