# Week Feb. 3 Objectives

### Section 9.4: The Tangent Ratio

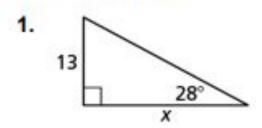
Common Core State Standards: G.SRT.C.6, G.SRT.C.8 Learning Target: Understand and use the tangent ratio.

Success Criteria

- Explain the tangent ratio.
- Find tangent ratios.
- Use tangent ratios to solve real-life problems.

Vocabulary: trigonometric ratio, tangent, angle of elevation

#### Find the value of x.



#### Section 9.5: The Sine and Cosine Ratios

Common Core State Standards: G.SRT.C.6, G.SRT.C.7, G.SRT.C.8

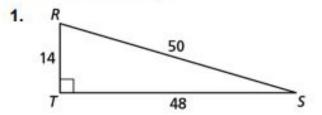
Learning Target: Understand and use the sine and cosine ratios.

Success Criteria

- Explain the sine and cosine ratios.
- Find sine and cosine ratios.
- Use sine and cosine ratios to solve real-life problems.

Vocabulary: sine, cosine, angle of depression

In Exercises 1 and 2, find sin R, sin S, cos R, a fraction and as a decimal.



## Week Overview: Geometry (CP) Q3 Feb 3-7, 2025

<u>Monday</u> --- Review last quiz --- generate examples such as next slide on dump truck example. Then Play Kahoot <a href="https://kahoot.it/challenge/08370133?challenge-id=6a35df94-15d6-42bb-9a0b-074">https://kahoot.it/challenge/08370133?challenge-id=6a35df94-15d6-42bb-9a0b-074</a> 04aeef3ff 1738548369287

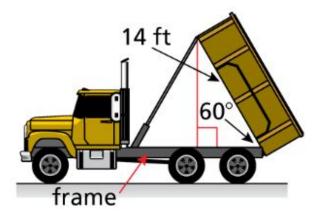
HW Play Kahoot again and do #1-10 off dynamic classroom 9.2 section with homeroom tutoring session option.

<u>Tuesday</u> --- Retest/Replace Quiz on Special Triangles

THEN take notes on 9.4 by student watching and copying notes from examples off dynamic classroom #1,2,3 and their following self assessment problems #1-3, 4-6 till all students are finished. Then Mrs. Pletcher has students do a drawing on grid paper to explain concept of tangent compared to slope. Finish notes for homework.

## Monday Opener:

The body of a dump truck rests on a frame. The body is raised to empty a load of sand. How far from the frame is the front of the 14 -foot-long body when it is tipped upward by a  $60^{\circ}$  angle? Round your answer to the nearest tenth.



The 14 -foot-long body is about feet high from the frame.



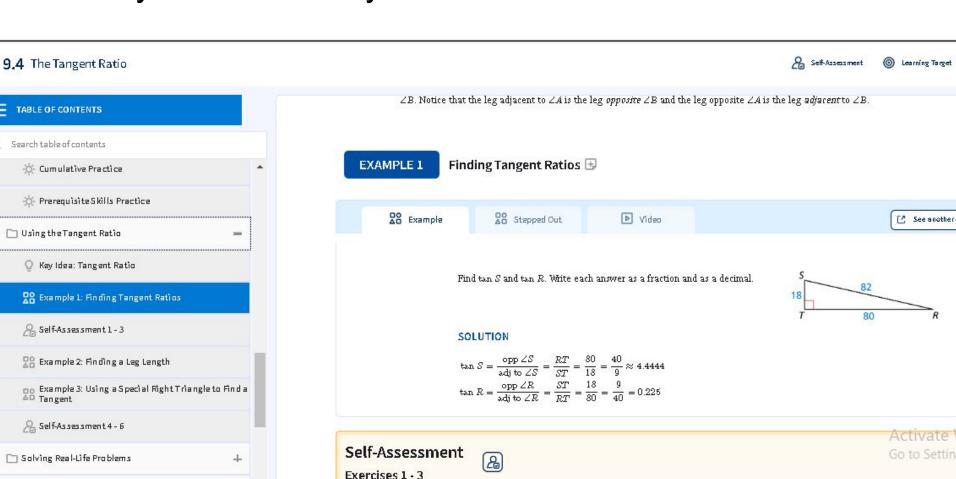






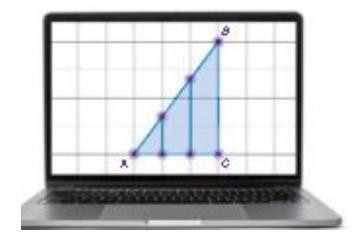


# Tuesday Notes: Use dynamic classroom 9.4



# Explore it - Tangent explained off grid of similar triangles

- Make triangle 3-4-5 to show.
- Slope is rise y over run x.
- Connect also to circle radius and unit circle.
- Tangent is opposite over adjacent at 90 angle.



# Week Overview: Geometry (CP) Q3 Feb 3-7, 2025

<u>Wednesday</u> --- Check and explain the self assessments off homework. Assign dynamic classroom practice 9.4 # 1-14. Finish for homework.

<u>Thursday</u> --- Mini Quiz at start of quiz online. Students start notes with dynamic classroom 9.5 examples # 1-3 followed by the self assessment problems. When quiz is completed by all, Mrs. Pletcher will help with notes and self assessment problems or students finish for homework.

<u>Friday</u> ---Review quiz 9.4. Check and explain the self assessments off homework. Use example 6 dynamic classroom as notes. Then Assign dynamic classroom practice 9.5 # 1-17 odds only.. Finish for homework.