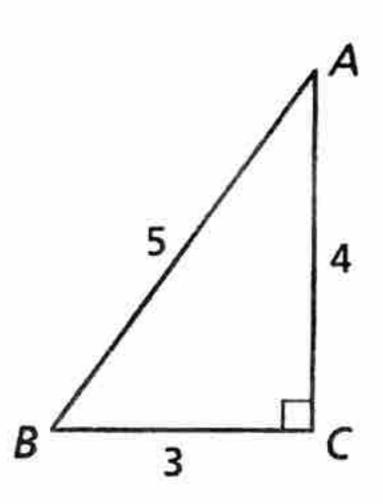
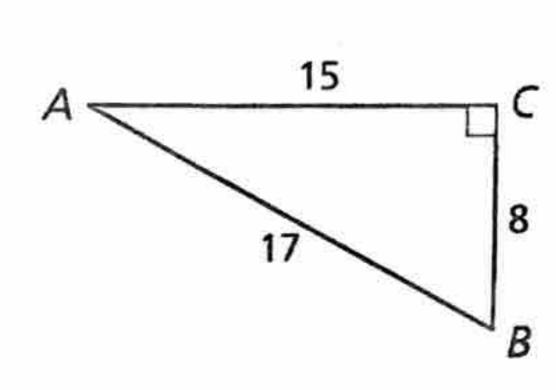
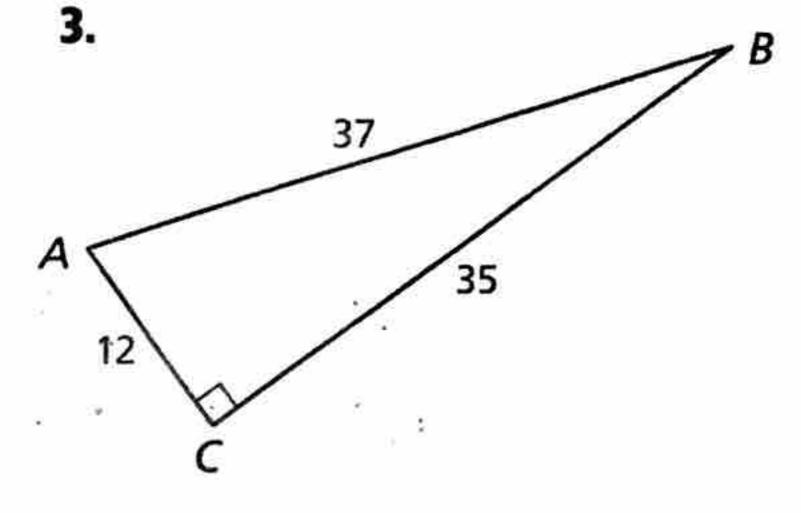
RACTICE

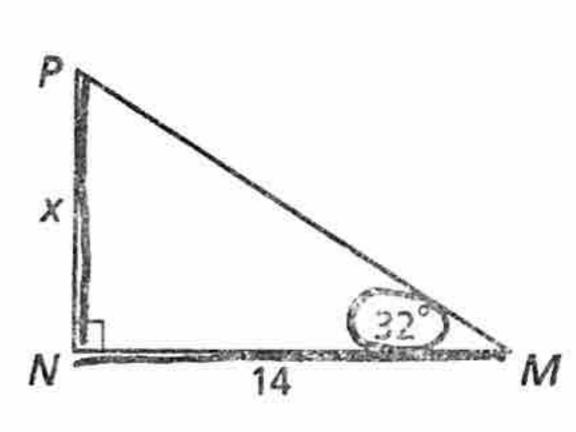
Find the tangent of $\angle A$ and $\angle B$. Write each ratio as a fraction and as a decimal rounded to the nearest hundredth.

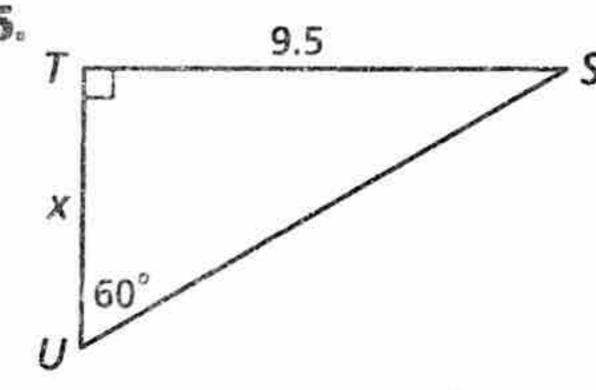


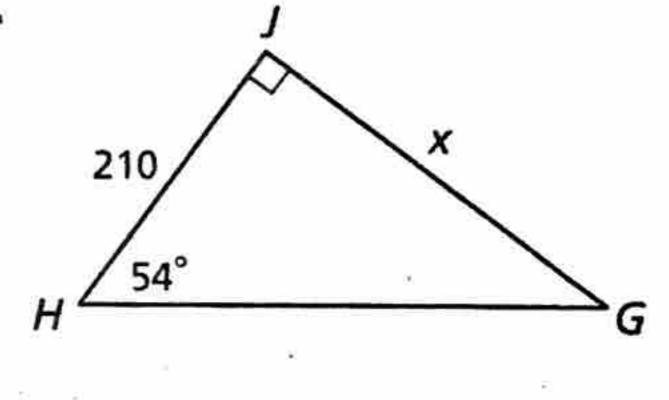




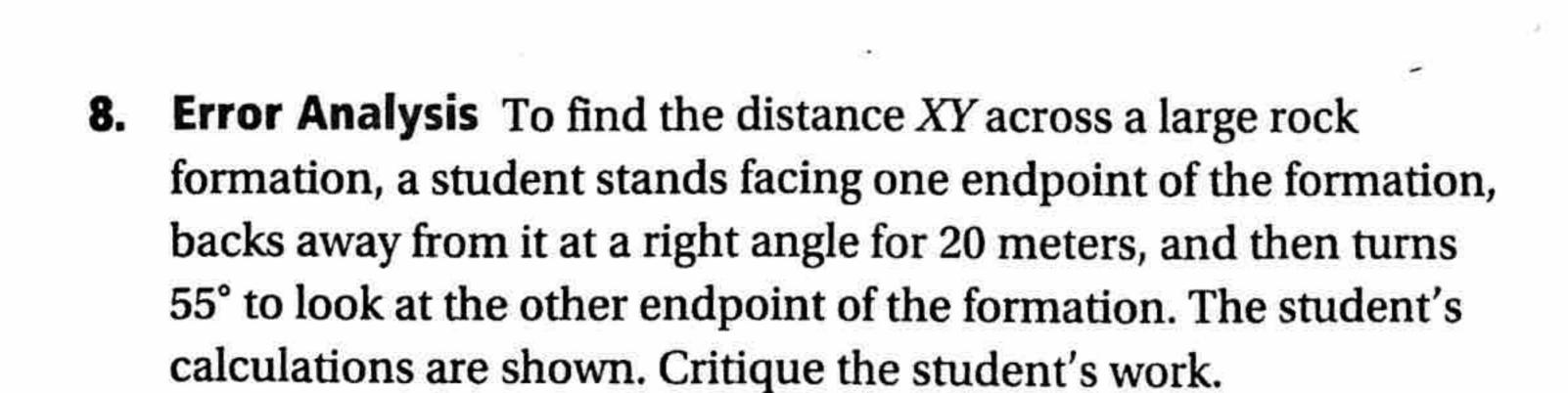
Find the value of x to the nearest tenth.

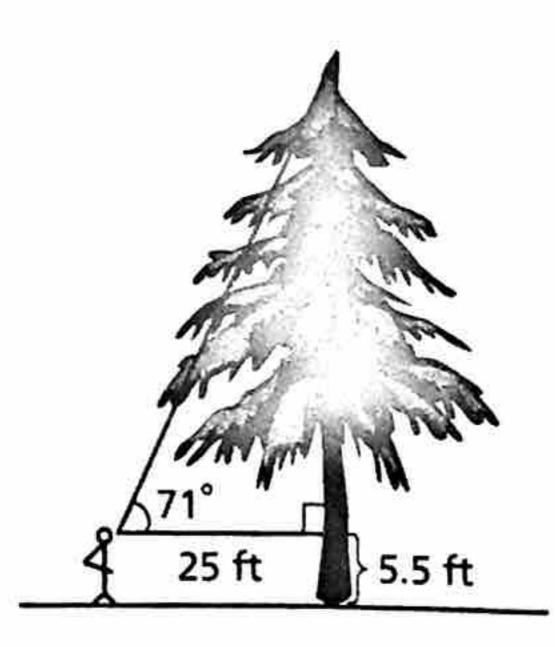


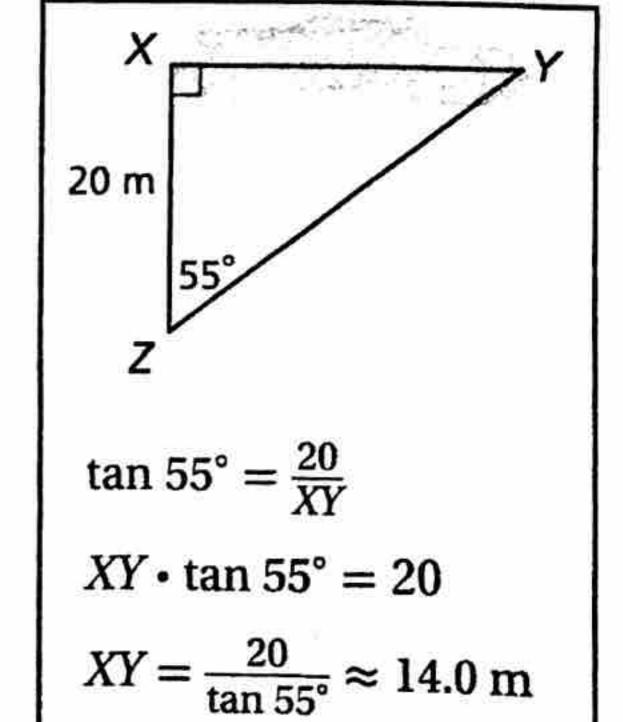




7. A hiker whose eyes are 5.5 feet above ground stands 25 feet from the base of a redwood tree. She looks up at an angle of 71° to see the top of the tree. To the nearest tenth of a foot, what is the height of the tree?

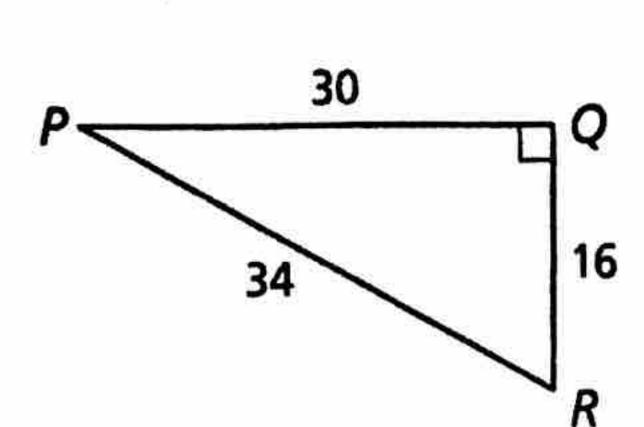




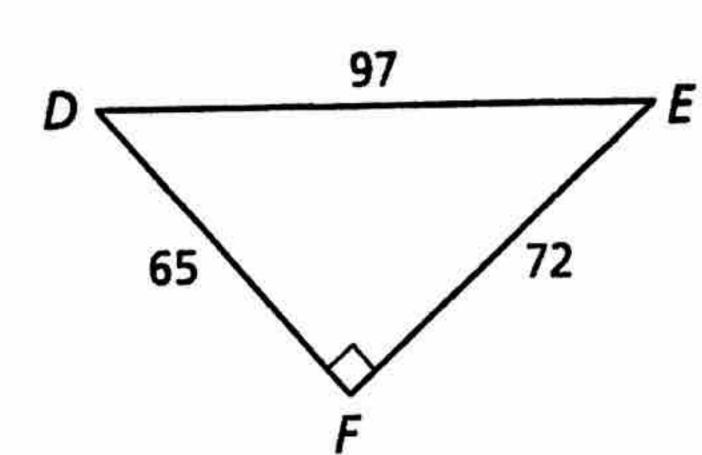


Find the given trigonometric ratios. Write each ratio as a fraction and as a decimal rounded to the nearest hundredth.

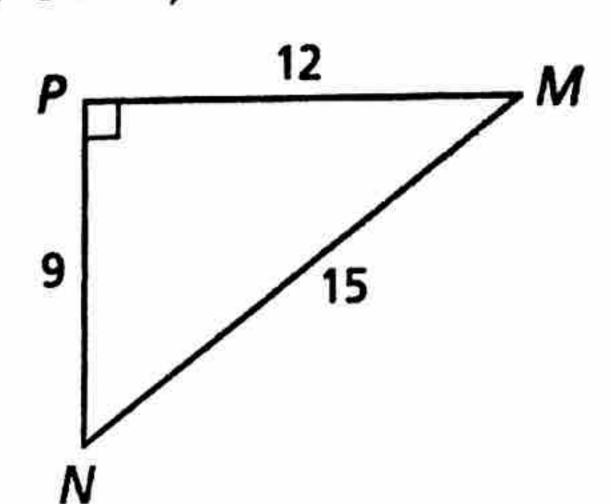
9. $\sin R$, $\cos R$



10. $\cos D$, $\cos E$



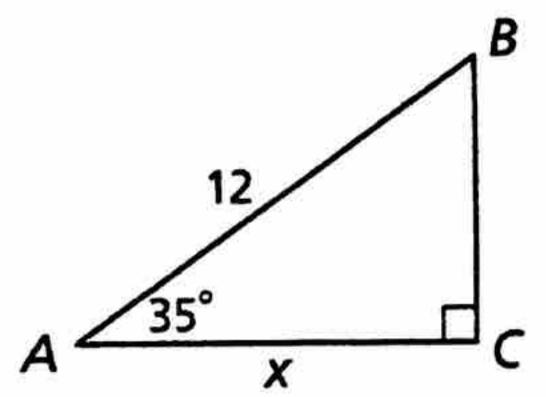
11. $\sin M$, $\sin N$



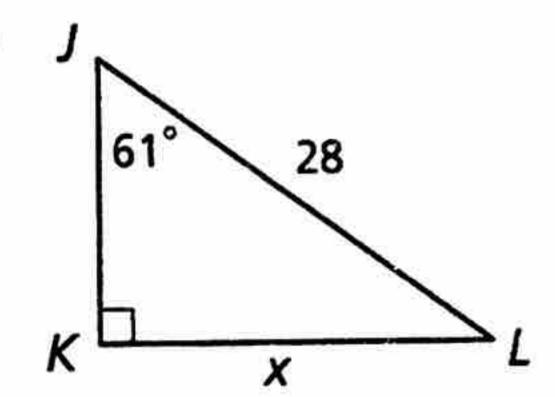
- 12. Given that $\sin 15^{\circ} \approx 0.259$, write the cosine of a complementary angle.
- 13. Given that $\cos 62^{\circ} \approx 0.469$, write the sine of a complementary angle.

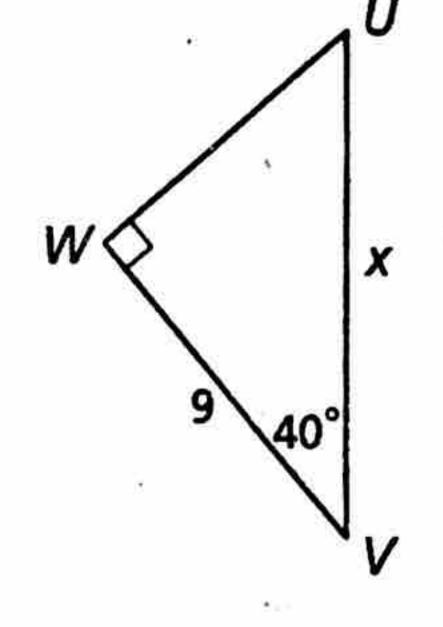
Find the value of x to the nearest tenth.

14.

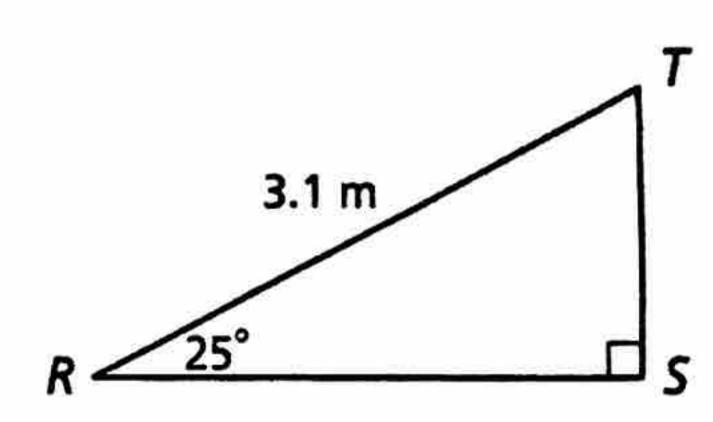


15.

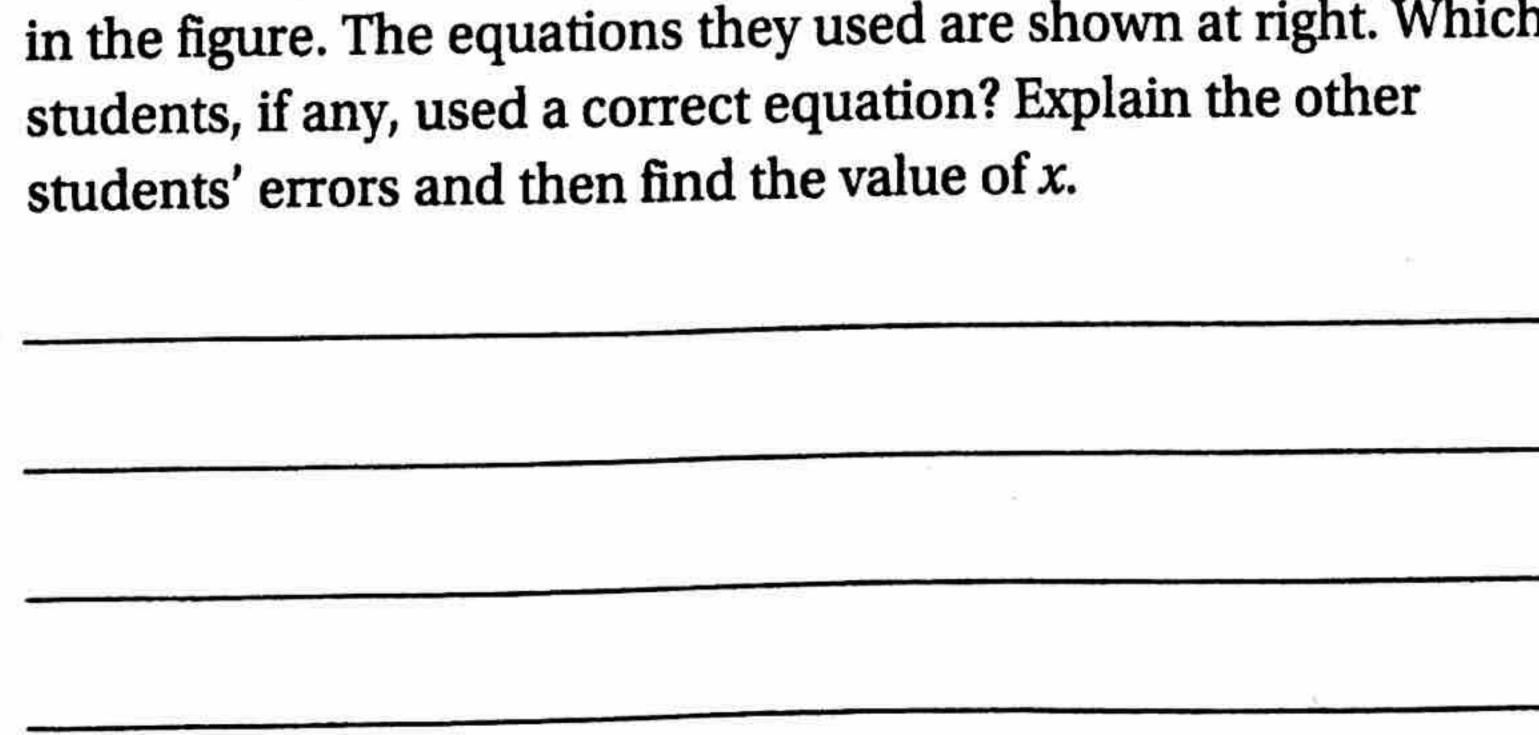


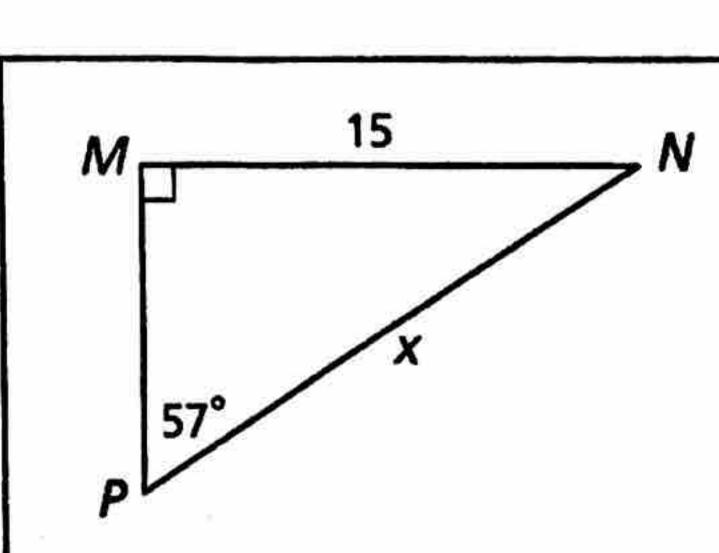


17. You are building a skateboard ramp from a piece of wood that is 3.1 meters long. You want the ramp to make an angle of 25° with the ground. To the nearest tenth of a meter, what is the length of the ramp's base? What is its height?



18. Error Analysis Three students were asked to find the value of xin the figure. The equations they used are shown at right. Which students, if any, used a correct equation? Explain the other





Lee's equation: $\sin 57^{\circ} = \frac{x}{15}$ Jamila's equation: $\cos 33^\circ = \frac{15}{r}$ Tyler's equation: $\sin 33^\circ = \frac{x}{15}$

Lesson 2