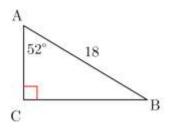
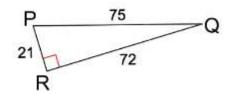
- 1. A right triangle has legs 10 and 24. Find $\cos \theta$ where θ is the smallest angle in the triangle. Give your answer as a reduced fraction.
- 2. If $\tan \theta = \frac{7}{24}$, find $\sin \theta$.
- 3. Find the length of AC.

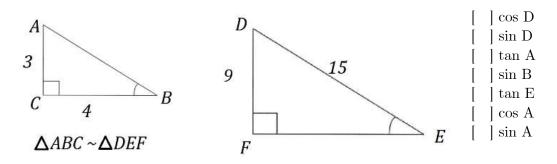


4. Find the measure of each acute angle in the triangle below to the nearest degree.



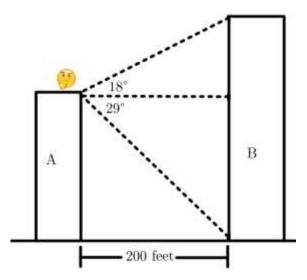
SRT-C7a5. sin(27°) is equal to the cosine of what angle measure?

- 6. A and B are complementary angles. If $\tan A = \frac{20}{21}$, find $\cos B$.
- 7. Which of the following is equivalent to $\sin E$? Select ALL that apply.



SRT-C8a

8. A person is at the top of a building and uses a clinometer to measure the angles of elevation and depression to the top and bottom of another, taller building located 200 feet away [see figure below]. How tall, to the nearest foot, is each building?



9. A 36-inch long plywood board is being used as a makeshift ramp to reach an elevated platform that is 1 foot above the ground [see below]. If the angle the board makes with the ground is 20° or greater, it will not be safe to use. Is the ramp safe to use? Show the calculations that lead to your conclusion.

