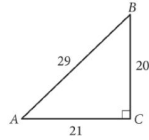


SAT Math

Right Triangles and Trigonometry 2

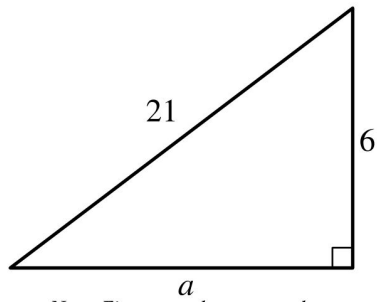
Question # ID
2.1 902dc959



In the figure above, what is the value of $\tan(A)$?

- A. $\frac{20}{29}$
- B. $\frac{21}{29}$
- C. $\frac{20}{21}$
- D. $\frac{21}{20}$

2.2 de550be0



Note: Figure not drawn to scale.

For the triangle shown, which expression represents the value of a ?

- A. $\sqrt{21^2 - 6^2}$
- B. $21^2 - 6^2$
- C. $\sqrt{21 - 6}$
- D. $21 - 6$

2.3 9ec76b54

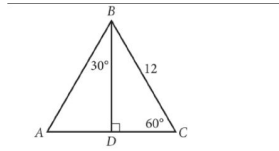
A right triangle has legs with lengths of 28 centimeters and 20 centimeters. What is the length of this triangle's hypotenuse, in centimeters?

- A. $8\sqrt{6}$
- B. $4\sqrt{74}$
- C. 48
- D. 1,184

SAT Math

Right Triangles and Trigonometry 2

Question # ID
2.4 bf8d843e



In $\triangle ABC$ above, what is the length of \overline{AD} ?

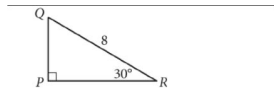
- A. 4
- B. 6
- C. $6\sqrt{2}$
- D. $6\sqrt{3}$

2.5 a5aee181

The length of a rectangle's diagonal is $5\sqrt{17}$, and the length of the rectangle's shorter side is 5. What is the length of the rectangle's longer side?

- A. $\sqrt{17}$
- B. 20
- C. $15\sqrt{2}$
- D. 400

2.6 13d9a1c3

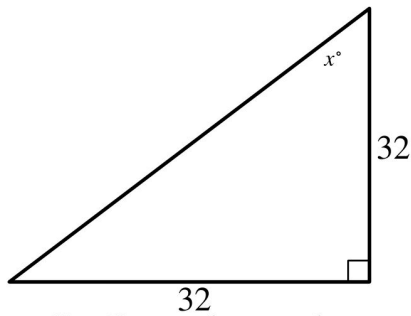


In the right triangle shown above, what is the length of \overline{PQ} ?

SAT Math

Right Triangles and Trigonometry 2

Question # ID
2.7 a71617d3



Note: Figure not drawn to scale.

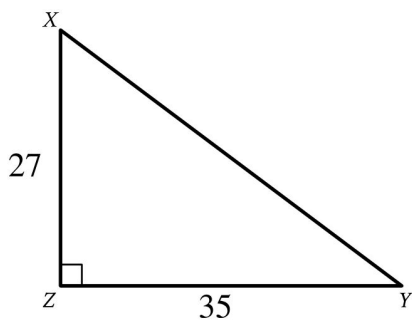
In the triangle shown, what is the value of x ?

2.8 5a7e3b46

In $\triangle ABC$, $\angle B$ is a right angle and the length of \overline{BC} is 136 millimeters. If $\cos A = \frac{3}{5}$, what is the length, in millimeters, of \overline{AB} ?

- A. 34
- B. 102
- C. 136
- D. 170

2.9 659cb706



Note: Figure not drawn to scale.

Triangle XYZ shown is a right triangle. Which of the following has the same value as $\sin X$?

- A. $\tan X$
- B. $\tan Y$
- C. $\cos X$
- D. $\cos Y$