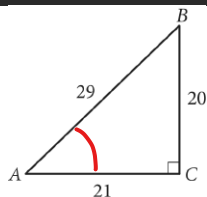


Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Geometry and Trigonometry	Right triangles and trigonometry	■ ■ □

ID: 902dc959

2.1



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

A. $\frac{20}{29}$

B. $\frac{21}{29}$

~~C. $\frac{20}{21}$~~

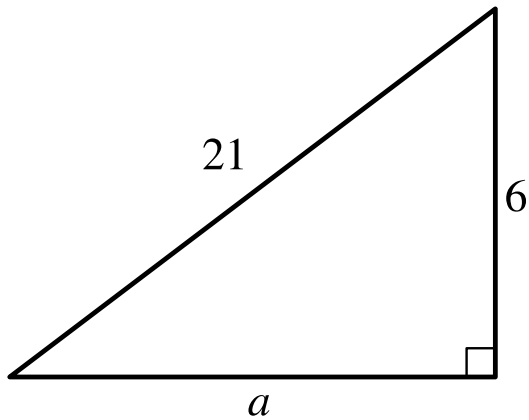
D. $\frac{21}{20}$

Question ID de550be0

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Geometry and Trigonometry	Right triangles and trigonometry	■ ■ □

ID: de550be0

2.2



Note: Figure not drawn to scale.

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

☒ $\sqrt{21^2 - 6^2}$

B. $21^2 - 6^2$

C. $\sqrt{21 - 6}$

D. $21 - 6$

Question ID 9ec76b54

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Geometry and Trigonometry	Right triangles and trigonometry	■ ■ □

ID: 9ec76b54

2.3

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

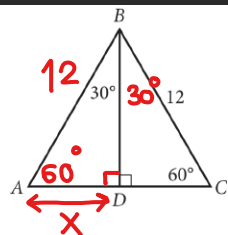
$$\sqrt{28^2 + 20^2} = 4\sqrt{74} //$$

Question ID bf8d843e

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Geometry and Trigonometry	Right triangles and trigonometry	

ID: bf8d843e

2.4



$$\begin{aligned}\sin 30^\circ &= \frac{X}{12} \\ \frac{1}{2} &= \frac{X}{12} \\ X &= 6\end{aligned}$$

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

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

Question ID a5aee181

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Geometry and Trigonometry	Right triangles and trigonometry	■ ■ □

ID: a5aee181

2.5

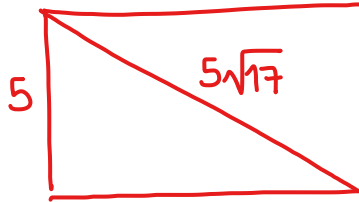
The length of a rectangle's diagonal is $5\sqrt{17}$, and the length of the rectangle's shorter side is 5. What is the length of the rectangle's longer side?

A. $\sqrt{17}$

~~B. 20~~

C. $15\sqrt{2}$

D. 400



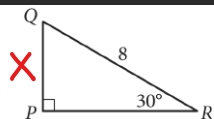
$$\sqrt{(5\sqrt{17})^2 - 5^2} = 20 //$$

Question ID 13d9a1c3

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Geometry and Trigonometry	Right triangles and trigonometry	■ ■ □

ID: 13d9a1c3

2.6



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

$$\begin{aligned}\sin 30^\circ &= \frac{x}{8} \\ \frac{1}{2} &= \frac{x}{8} \\ x &= 4\end{aligned}$$