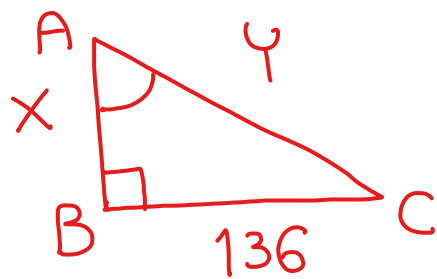


Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Geometry and Trigonometry	Right triangles and trigonometry	Medium

ID: f4680374

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



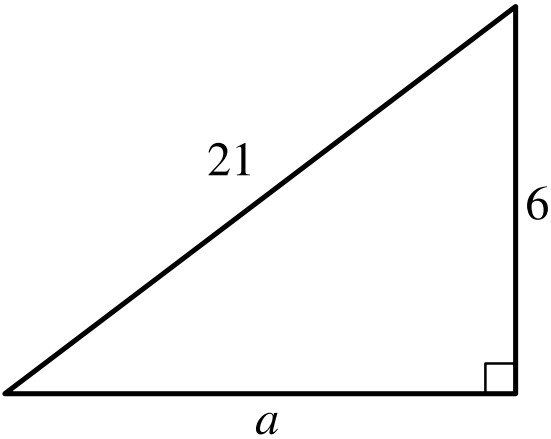
$$\frac{3}{5} = \frac{X}{Y}$$
$$136^2 + X^2 = Y^2$$

Desmos $\rightarrow (102, 170), (-102, -170)$
//

Question ID de6d51e1

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

ID: de6d51e1



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. $21 - 6$

Question ID 06e0b4a8

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

ID: 06e0b4a8



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

Question ID 79588172

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

ID: 79588172



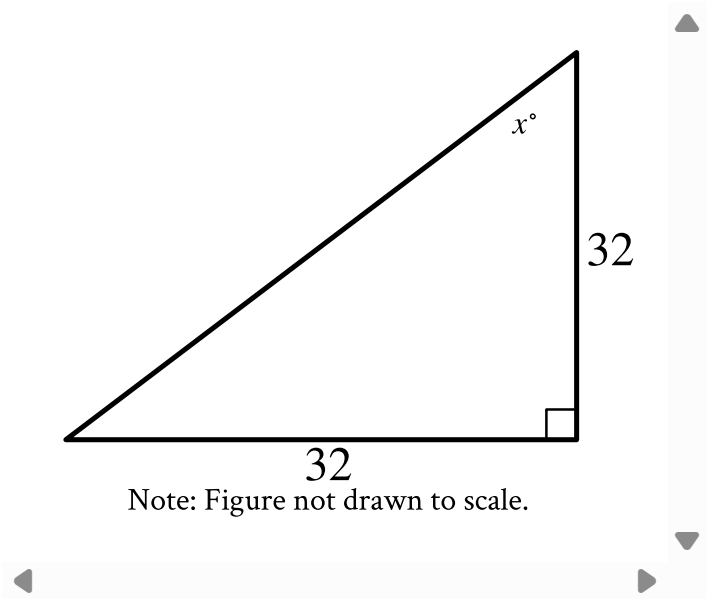
A right triangle has legs with lengths of **28** centimeters and **20** centimeters. What is the length of this triangle's hypotenuse, in centimeters?

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

Question ID 2c02a042

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

ID: 2c02a042



Note: Figure not drawn to scale.

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

$$x^\circ = 45^\circ \text{ known}$$

$$\tan x = \frac{32}{32}$$
$$x = \tan^{-1}\left(\frac{32}{32}\right)$$
$$= 45^\circ$$

Question ID 2f3f970c

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

ID: 2f3f970c

One leg of a right triangle has a length of 43.2 millimeters. The hypotenuse of the triangle has a length of 196.8 millimeters. What is the length of the other leg of the triangle, in millimeters?

- A. 43.2
- B. 120
- ~~C. 192~~
- D. 201.5

$$\sqrt{196.8^2 - 43.2^2} = 192 //$$

Question ID 51355d23

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

ID: 51355d23

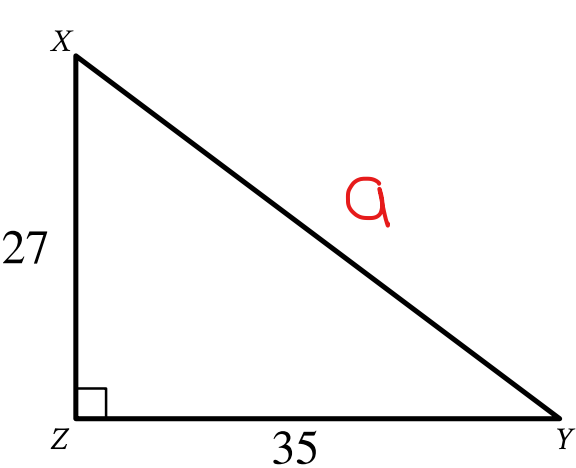
Triangle FGH is similar to triangle JKL , where angle F corresponds to angle J and angles G and K are right angles. If $\sin(F) = \frac{308}{317}$, what is the value of $\sin(J)$?

- A. $\frac{75}{317}$
- ~~B. $\frac{308}{317}$~~
- C. $\frac{317}{308}$
- D. $\frac{317}{75}$

Question ID db723cd

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

ID: db723cd



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. ~~$\cos Y$~~

$\sin X$ ไม่มีทาง
เท่ากับ $\cos X$ หรือ $\tan X$
ยกเว้น $X = 45^\circ$

$\frac{35}{a}$

$\left. \begin{aligned} \sin X &= \cos Y \\ \cos X &= \sin Y \\ \tan X &= \cot Y \end{aligned} \right\}$ ถ้า $X, Y \neq 90^\circ$
โศกแค่ 2 ข้อแรกพอ

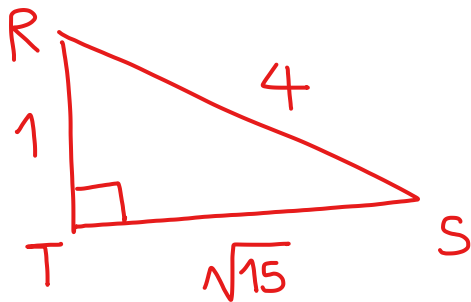
Question ID db81edbb

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

ID: db81edbb

In right triangle RST , the sum of the measures of angle R and angle S is 90 degrees. The value of $\sin(R)$ is $\frac{\sqrt{15}}{4}$. What is the value of $\cos(S)$?

- A. $\frac{\sqrt{15}}{15}$
- ~~B. $\frac{\sqrt{15}}{4}$~~
- C. $\frac{4\sqrt{15}}{15}$
- D. $\sqrt{15}$

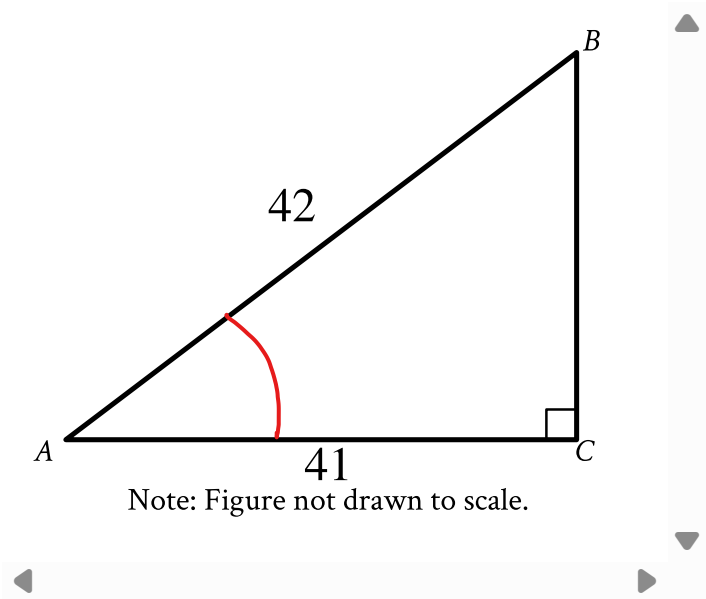


มองตอบได้

Question ID c19b1626

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

ID: c19b1626



What is the value of cos A in the triangle shown?

- A. $\frac{42}{41}$
- ~~B. $\frac{41}{42}$~~
- C. $\frac{1}{42}$
- D. $\frac{1}{41}$