

# New Maths GCSE : G20 - Trigonometry or Pythagoras?



Name:.....

Date:.....

A **sin**  
 B **cos**  
 C **tan**  
 D *Pythagoras*

Correct Answer: A B C D

Explanation:

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A **sin**  
 B **cos**  
 C **tan**  
 D *Pythagoras*

Correct Answer: A B C D

Explanation:

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A **sin**  
 B **cos**  
 C **tan**  
 D *Pythagoras*

Correct Answer: A B C D

Explanation:

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A right-angled triangle with a right angle at the bottom-left vertex. The angle at the top vertex is  $36.2^\circ$ . The horizontal base is labeled  $21\text{ cm}$ . The hypotenuse is labeled  $y$ .

A **sin**  
 B **cos**  
 C **tan**  
 D *Pythagoras*

Correct Answer: A B C D

Explanation:

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A right-angled triangle with a right angle at the top-right vertex. The horizontal side is labeled  $4\text{ cm}$ . The vertical side is labeled  $8\text{ cm}$ . The hypotenuse is labeled  $x$ .

A **sin**  
 B **cos**  
 C **tan**  
 D *Pythagoras*

Correct Answer: A B C D

Explanation:

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A right-angled triangle with a right angle at the top-left vertex. The vertical side is labeled  $x$ . The horizontal side is labeled  $8\text{ cm}$ . The hypotenuse is labeled  $12\text{ cm}$ .

A **sin**  
 B **cos**  
 C **tan**  
 D *Pythagoras*

Correct Answer: A B C D

Explanation:

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A right-angled triangle with a right angle at the bottom-right vertex. Both the horizontal and vertical legs are labeled  $2$ . The hypotenuse is labeled  $b$ .

A **sin**  
 B **cos**  
 C **tan**  
 D *Pythagoras*

Correct Answer: A B C D

Explanation:

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3.4 cm

5.2 cm

$x$

A **sin**

B **cos**

C **tan**

D *Pythagoras*

Correct Answer: A B C D

Explanation:

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What is  $\sin \alpha$ ?

$\alpha$

$c$

$b$

$a$

$\beta$

A  $\frac{b}{a}$

B  $\frac{a}{b}$

C  $\frac{c}{b}$

D  $\frac{a}{c}$

Correct Answer: A B C D

Explanation:

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What is  $\tan \alpha$ ?

$\alpha$

$c$

$b$

$a$

$\beta$

A  $\frac{c}{a}$

B  $\frac{a}{c}$

C  $\frac{c}{b}$

D  $\frac{b}{a}$

Correct Answer: A B C D

Explanation:

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What is  $\frac{c}{a}$ ?

$\alpha$

$c$

$b$

$a$

$\beta$

A  $\tan \beta$

B  $\cos \alpha$

C  $\sin \beta$

D  $\tan \alpha$

Correct Answer: A B C D

Explanation:

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