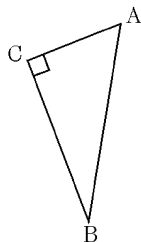
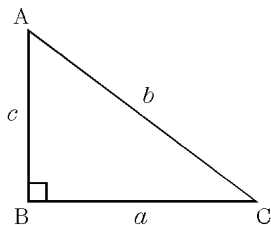


1. Express  $\sin A$  as a ratio of the lengths of the sides of  $\triangle ABC$ .

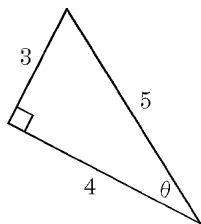


2. Express  $\sin A$  as a ratio of the variables given in  $\triangle ABC$ .

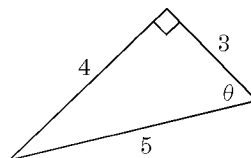


3. Express  $\tan A$  as a ratio of the variables given in  $\triangle ABC$ .

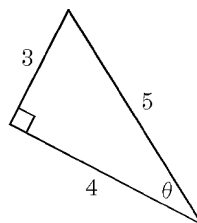
4. Given the following triangle,  $\sin \theta = \underline{\hspace{2cm}}$



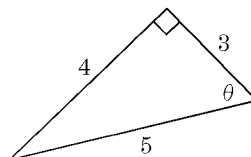
5. Given the following triangle,  $\sin \theta = \underline{\hspace{2cm}}$



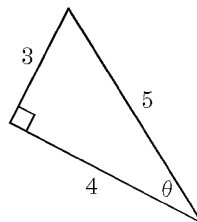
6. Given the following triangle,  $\cos \theta = \underline{\hspace{2cm}}$



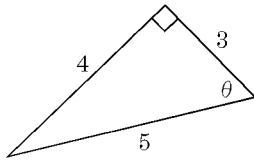
7. Given the following triangle,  $\cos \theta = \underline{\hspace{2cm}}$



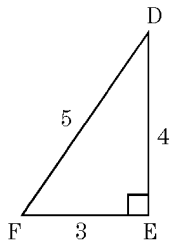
8. Given the following triangle,  $\tan \theta = \underline{\hspace{2cm}}$



9. Given the following triangle,  $\tan \theta =$  \_\_\_\_\_

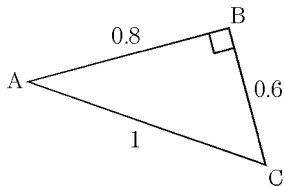


10. In  $\triangle DEF$ , what is the value of  $\cos D$ ?

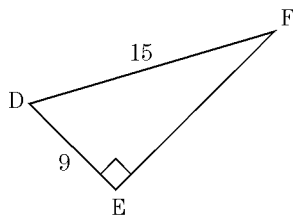


11. In  $\triangle DEF$ , what is the value of  $\sin D$ ?

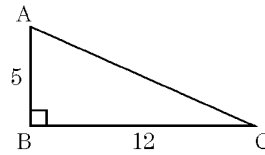
12. In  $\triangle ABC$ , what is the value of  $\cos C$ ?



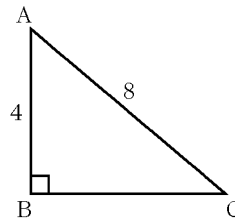
13. In  $\triangle DEF$ , what is the value of  $\tan F$ ?



14. Determine the value of  $\sin A$ .

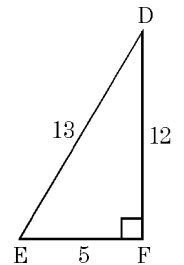


15. What is the cosine of  $\angle C$ ? Round your answer to the nearest tenth.



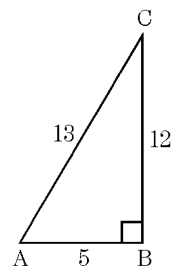
16. In  $\triangle DEF$ , which of the following is equal to  $\frac{5}{12}$ ?

- a)  $\sin D$
- b)  $\sin E$
- c)  $\cos D$
- d)  $\tan D$
- e)  $\tan E$

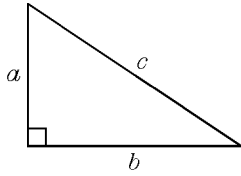


17. In  $\triangle ABC$ , which of the following is equal to  $\frac{12}{13}$ ?

- a)  $\sin C$
- b)  $\cos A$
- c)  $\cos C$
- d)  $\tan A$
- e)  $\tan C$



18. In the diagram,  $a = 7$  and  $b = 24$ . Find  $c$ .



19. In the diagram,  $a = 9$  and  $b = 12$ . Find  $c$ .

20. In the diagram,  $a = 3$  and  $b = 5$ . Find  $c$ .

21. In the diagram,  $b = 24$  and  $c = 25$ . Find  $a$ .

22. In the diagram,  $b = 12$  and  $c = 15$ . Find  $a$ .

23. Is the following a Pythagorean Triple?  $\{5, 6, 7\}$

24. Is the following a Pythagorean Triple?  
 $\{39, 36, 15\}$

1.  
Answer:  $\frac{BC}{AB}$
2.  
Answer:  $\frac{a}{b}$
3.  
Answer:  $\frac{a}{c}$
4.  
Answer:  $\frac{3}{5}$
5.  
Answer:  $\frac{4}{5}$
6.  
Answer:  $\frac{4}{5}$
7.  
Answer:  $\frac{3}{5}$
8.  
Answer:  $\frac{3}{4}$
9.  
Answer:  $\frac{4}{3}$
10.  
Answer:  $\frac{4}{5}$
11.  
Answer:  $\frac{3}{5}$
12.  
Answer:  $\frac{3}{5}$
13.  
Answer:  $\frac{3}{4}$
14.  
Answer:  $\frac{12}{13}$
15.  
Answer: 0.9
16.  
Answer: d
17.  
Answer: c

18.  
Answer: 25
19.  
Answer: 15
20.  
Answer:  $\sqrt{34}$
21.  
Answer: 7
22.  
Answer: 9
23.  
Answer: No
24.  
Answer: Yes