

Trig Day 5 HW

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. In  $\triangle ABC$ ,  $a = 6$ ,  $b = 9$ , and  $\sin A = \frac{2}{3}$ . Find  $\sin B$ .

2. In  $\triangle ABC$ ,  $b = 12$ ,  $c = 8$ , and  $\sin B = \frac{1}{2}$ . Find the value of  $\sin C$ .

3. In  $\triangle ABC$ ,  $a = 15$ ,  $c = 10$ , and  $\sin A = 0.45$ . Find  $\sin C$ .

4. In  $\triangle ABC$ ,  $a = 5$ ,  $b = 7$ , and  $\sin A = \frac{3}{7}$ . What is  $\sin B$ ?

5. If  $a = 4$ ,  $b = 6$ , and  $\sin A = \frac{3}{5}$  in  $\triangle ABC$ , then  $\sin B$  equals

- A.  $\frac{3}{20}$       B.  $\frac{6}{10}$       C.  $\frac{8}{10}$       D.  $\frac{9}{10}$

6. In  $\triangle ABC$ , side  $a = 3$ , side  $c = 3\sqrt{2}$ , and  $m\angle A = 45$ . Find  $m\angle C$ .

7. In  $\triangle ABC$ ,  $m\angle A = 30$ ,  $a = 8$ , and  $b = 12$ . Find  $\sin B$ .

Trig Day 5 HW      03/13/2017

1.  
Answer:      1
2.  
Answer:       $\frac{1}{3}$
3.  
Answer:      0.3
4.  
Answer:       $\frac{3}{5}$
5.  
Answer:      D
6.  
Answer:      90
7.  
Answer:       $\frac{3}{4}$