

## Law of Cosines Review

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- 1) Triangle HJK has angle  $H = 34^\circ$ ,  $j = 7$ , and  $k = 10$ .  
Find side  $h$ .

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- 2) Triangle BAT has  $b = 9$ ,  $a = 12$ , and  $t = 14$ .  
Find angle  $B$ .

## Area of Triangles Review

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- 3) Triangle DEF has angle E =  $115^\circ$ ,  $d = 7$ , and  $f = 13$ .  
Find the area of the triangle.

## Area of Triangles Review

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- 4) Triangle AXE has  $a = 24$ ,  $x = 53$ , and  $e = 39$ .  
Find the area of the triangle.

## Law of Sines Review

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- 5) Triangle TAR has  $A = 51^\circ$ ,  $R = 63^\circ$ , and  $r = 13$ .  
Find side  $a$ .

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- 6) Triangle HOT has  $H = 29^\circ$ ,  $T = 25^\circ$ , and  $o = 30$ .  
Find side  $h$ .

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- 7) Triangle SHY has  $S = 108^\circ$ ,  $s = 9$ , and  $h = 7$ .  
Find angle H.

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- 8) Triangle CAR has  $C = 20.5^\circ$ ,  $r = 31$ , and  $c = 12$ .  
Find angle R.

## Answers

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1)  $h = 5.7$

2)  $B = 39.6^\circ$

3) Area =  $41.2 \text{ units}^2$

4) Area =  $432.8 \text{ units}^2$

5)  $a = 11.3$

6)  $h = 18$

7)  $H = 47.7^\circ$

8)  $R = 64.8^\circ$  and  $115.2^\circ$