

# HONORS GEOMETRY REVIEW (7.4-7.6)

$H = L\sqrt{2}$

$H = 2S$

$L = 5\sqrt{3}$

## SPECIAL RIGHT TRIANGLES (45-45-90 and 30-60-90)

Find the value of each variable. Write your answers in simplest radical form.

1.



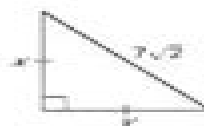
$y = 4\sqrt{3} \cdot \sqrt{3}$

$y = 12$

$x = 2 \cdot 4\sqrt{3}$

$x = 8\sqrt{3}$

2.



$7\sqrt{2} = x\sqrt{2}$

$x = 7$

$y = 7$

3.



$5\sqrt{3} = 2y$

$y = \frac{5\sqrt{3}}{2}$

$x = \frac{5\sqrt{3}}{2} \cdot \sqrt{3}$

$x = 7.5$

4.



$x = 2 \cdot 12\sqrt{3}$

$x = 24\sqrt{3}$

$y = 12\sqrt{3} \cdot \sqrt{3}$

$y = 36$

5.



$x = 12$

$12 = 5\sqrt{3}$

$\frac{12}{\sqrt{3}} = 5$

$5 = \frac{12\sqrt{3}}{3} = 4\sqrt{3}$

$y = 2 \cdot 4\sqrt{3}$

$y = 8\sqrt{3}$

6.



$6\sqrt{3} = 2S$

$S = 3\sqrt{3}$

$y = 3\sqrt{3} \cdot \sqrt{3}$

$y = 9$

$x = 9\sqrt{2}$

## SINE, COSINE AND TANGENT

Find the value of each variable to the nearest tenth.

7.



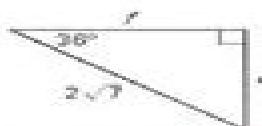
$\tan 53 = \frac{22}{a}$

$a = 16.6$

$\sin 53 = \frac{22}{b}$

$b = 27.5$

8.



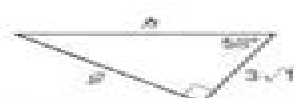
$\sin 36 = \frac{e}{2\sqrt{7}}$

$e = 3.1$

$\cos 36 = \frac{f}{2\sqrt{7}}$

$f = 4.3$

9.



$\tan 58 = \frac{g}{3\sqrt{11}}$

$g = 15.9$

$\cos 58 = \frac{3\sqrt{11}}{h}$

$h = 18.8$

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**The Princeton Review**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the 'The Princeton Review' text.

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