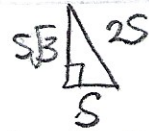
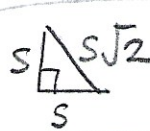


Ch 8.3

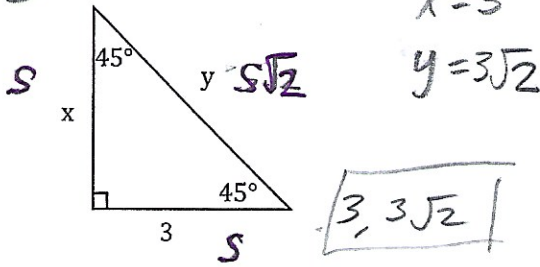
Name: Key



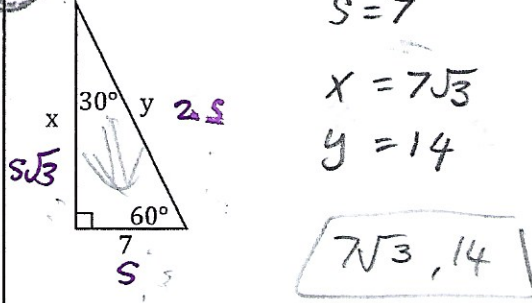
Class: \_\_\_\_\_

Label each special right triangle, and find the missing sides.

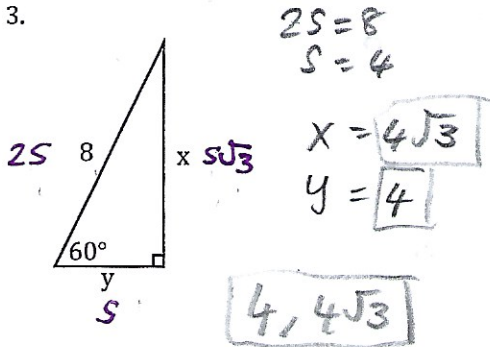
1.



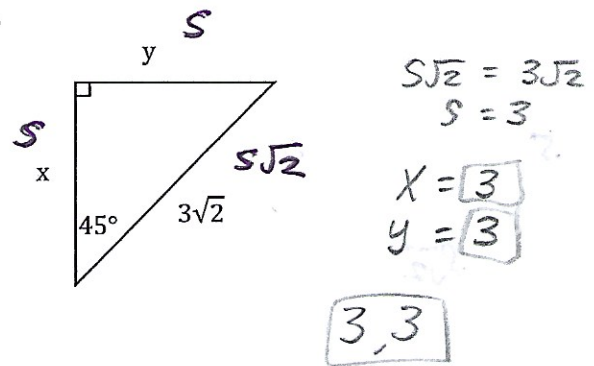
2.



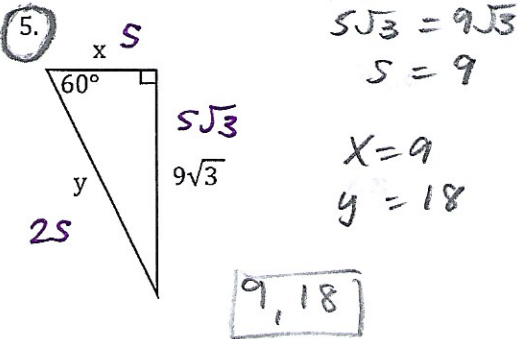
3.



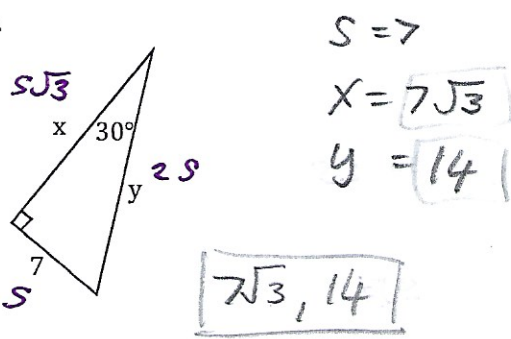
4.



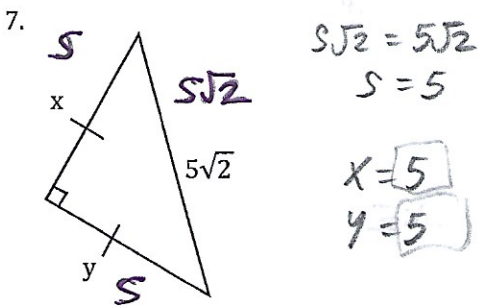
5.



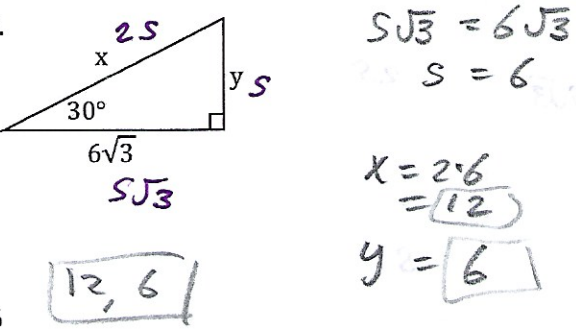
6.



7.



8.

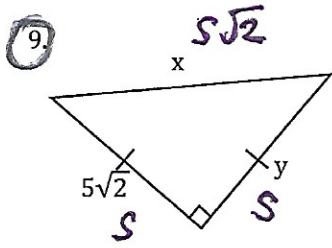


Bubble all the correct answers from above. Don't bubble incorrect answers.

X, y

- 9,18
- 6,12
- 7√3,14
- 5√2,5
- 3√2,3
- 6,16
- 5,13
- 9,18
- 3,3
- 3,3√3
- 3,3√2
- 5,5
- 6,6
- 4,4√3

Note  
 $\sqrt{2} \cdot \sqrt{2}$   
 $\sqrt{2^2}$   
 $2$



$$S = 5\sqrt{2}$$

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

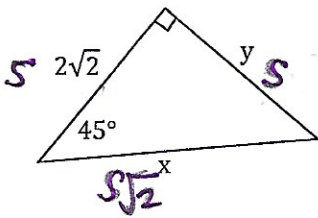
$$X = 5\sqrt{2} \cdot \sqrt{2}$$

$$= 5 \cdot 2$$

$$= 10$$

10,  $5\sqrt{2}$

11.



$$S = 2\sqrt{2}$$

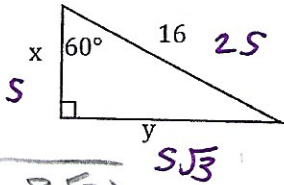
$$y = 2\sqrt{2}$$

$$X = 2\sqrt{2} \cdot \sqrt{2}$$

$$= 4$$

4,  $2\sqrt{2}$

13.



$$2S = 16$$

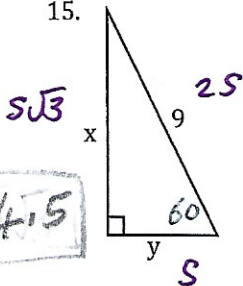
$$S = 8$$

$$X = 8$$

$$y = 8\sqrt{3}$$

8,  $8\sqrt{3}$

15.



$$2S = 9$$

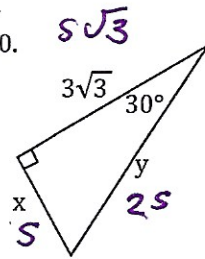
$$S = 4.5$$

$$X = 4.5\sqrt{3}$$

$$y = 4.5$$

$4.5\sqrt{3}$ , 4.5

10.



3, 6

$$S\sqrt{3} = 3\sqrt{3}$$

$$S = 3$$

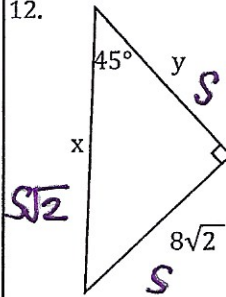
$$X = 3$$

$$y = 2S$$

$$= 2(3)$$

$$= 6$$

12.



16,  $8\sqrt{2}$

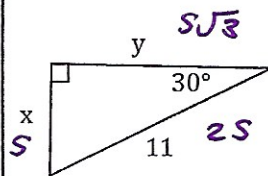
$$S = 8\sqrt{2}$$

$$y = 8\sqrt{2}$$

$$X = 8\sqrt{2} \cdot \sqrt{2}$$

$$= 16$$

14.



5.5,  $5.5\sqrt{3}$

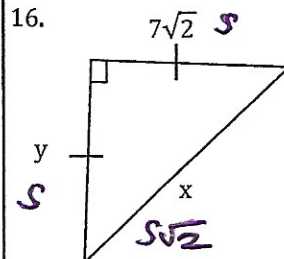
$$2S = 11$$

$$S = 5.5$$

$$X = 5.5$$

$$y = 5.5\sqrt{3}$$

16.



14,  $7\sqrt{2}$

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

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

$$X = 7\sqrt{2} \cdot \sqrt{2}$$

$$= 7 \cdot 2$$

$$= 14$$

Bubble all the correct answers from above. Don't bubble incorrect answers.

- $7\sqrt{2}, 7$ 
  $14, 7\sqrt{2}$ 
  $8, 8\sqrt{3}$ 
  $16, 8\sqrt{2}$ 
  $2\sqrt{3}, 6$ 
  $3\sqrt{2}, 6$ 
  $4, 2\sqrt{3}$ 
  $4, 2\sqrt{2}$ 
  $10, 3\sqrt{2}$ 
  $10, 3\sqrt{3}$ 
  $9, 9\sqrt{3}$ 
  $3, 6$ 
  $5.5, 5.5\sqrt{3}$ 
  $4.5, 4.5\sqrt{3}$