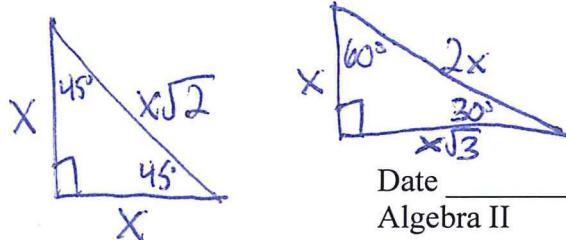


Name Schlansky
Mr. Schlansky

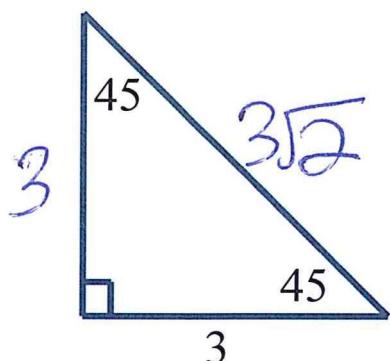


Date _____
Algebra II

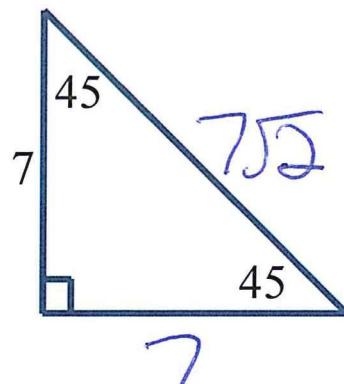
Special Right Triangles

Fill in the two missing sides of each of the following triangles.

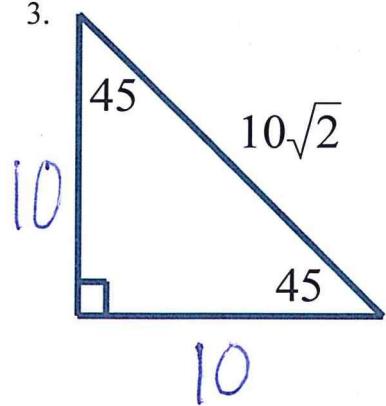
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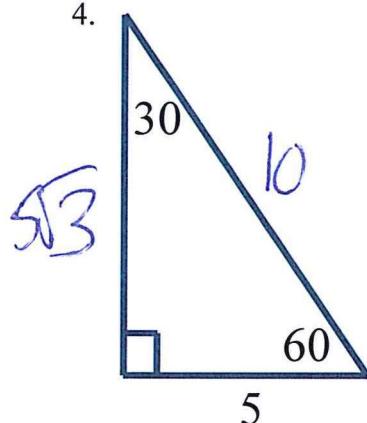
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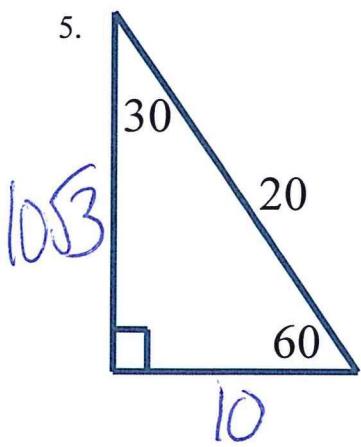
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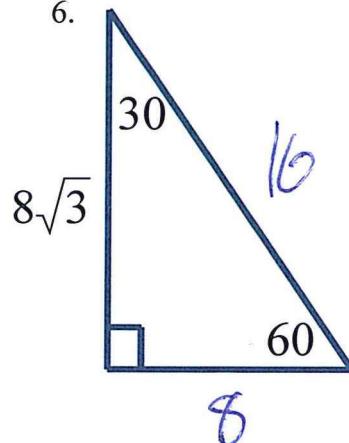
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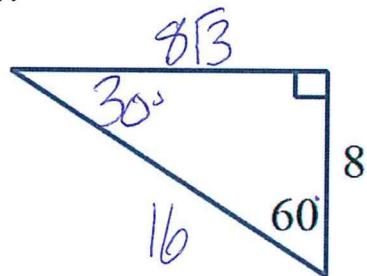
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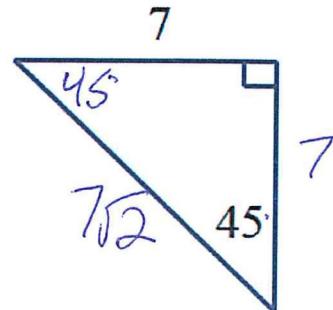
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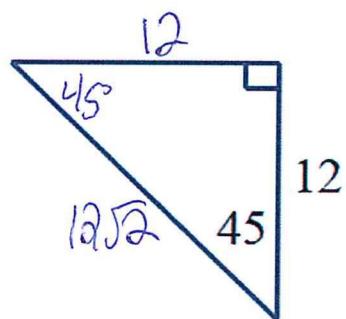
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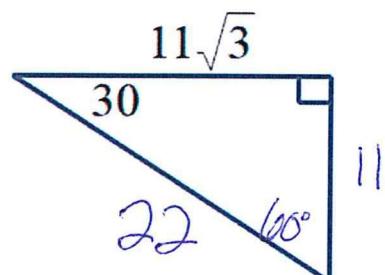
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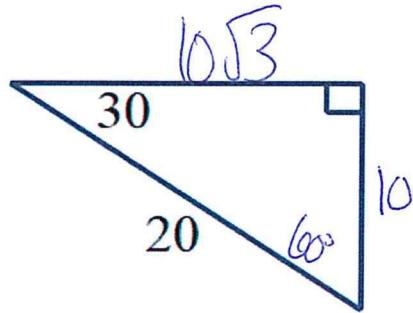
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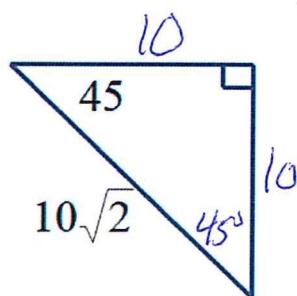
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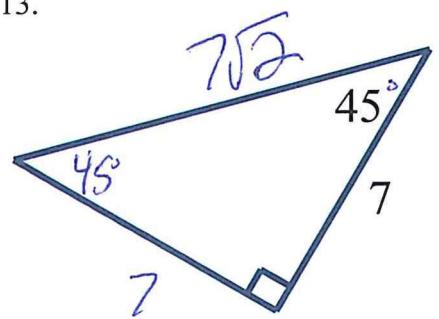
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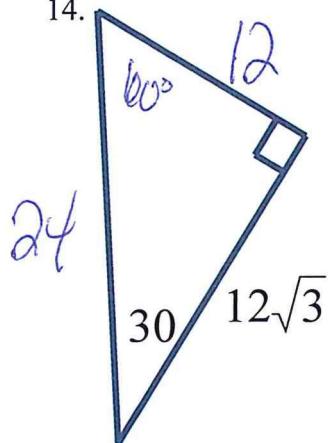
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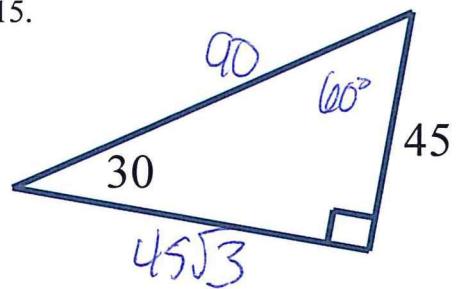
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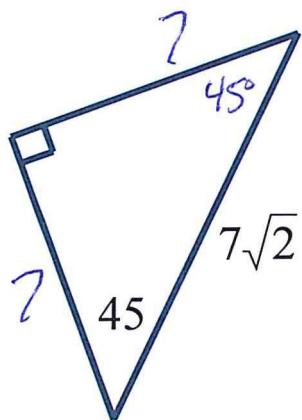
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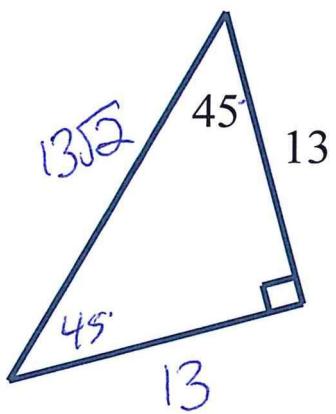
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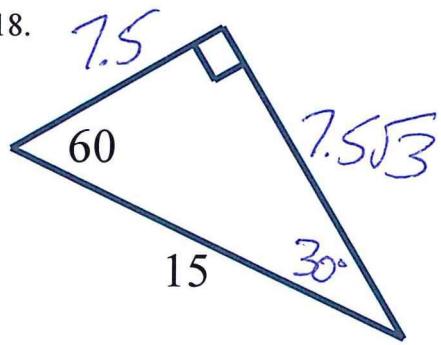
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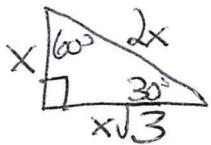
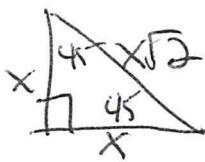


17.



18.



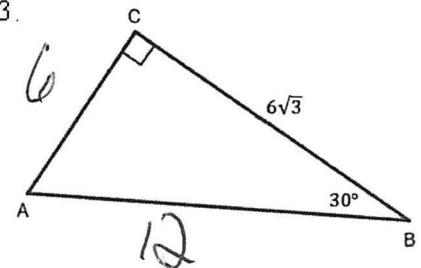


19. In right triangle ABC below, $m\angle C = 90^\circ$, $m\angle B = 30^\circ$, and $CB = 6\sqrt{3}$.

The length of \overline{AB} is

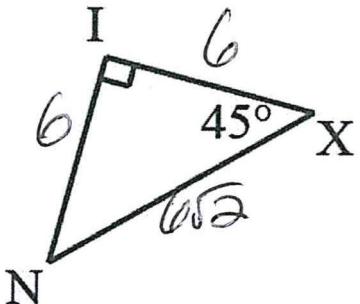
- 1) $3\sqrt{3}$
- 2) 9

- (3) 12
4) $12\sqrt{3}$



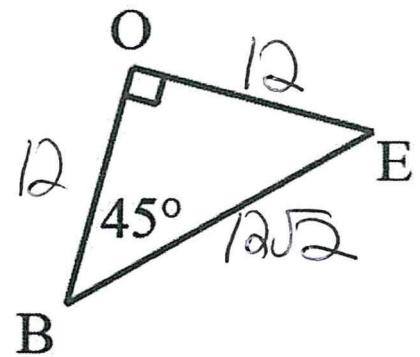
20. In right triangle NIX below, $m\angle I = 90^\circ$, $m\angle X = 45^\circ$, and $\overline{NX} = 6\sqrt{2}$. Find \overline{IX} .

- 1) $6\sqrt{2}$
(2) 6
3) $12\sqrt{2}$
4) 12



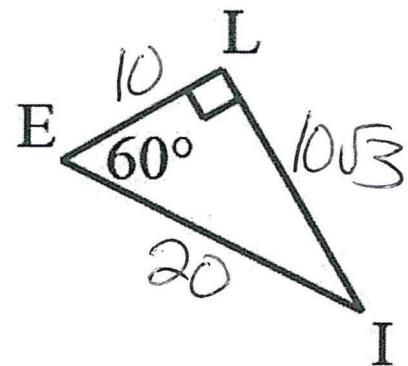
21. In right triangle BOE below, $m\angle O = 90^\circ$, $m\angle B = 45^\circ$, and $\overline{OE} = 12$. Find \overline{BE} .

- 1) 12
2) $12\sqrt{3}$
(3) $12\sqrt{2}$
4) 24



22. In right triangle BOE below, $m\angle L = 90^\circ$, $m\angle E = 60^\circ$, and $\overline{IE} = 20$. Find \overline{LI} .

- 1) $20\sqrt{3}$
2) 10
(3) $10\sqrt{3}$
4) 20



Rationalize the denominator for each of the following

23. $\frac{7\sqrt{2}}{\sqrt{2}\sqrt{2}} \left(\frac{\sqrt{2}}{\sqrt{2}} \right)$

24. $\frac{2\sqrt{3}}{\sqrt{3}\sqrt{3}} \left(\frac{\sqrt{3}}{\sqrt{3}} \right)$

25. $\frac{6\sqrt{2}}{\sqrt{2}\sqrt{2}} \left(\frac{\sqrt{2}}{\sqrt{2}} \right)$

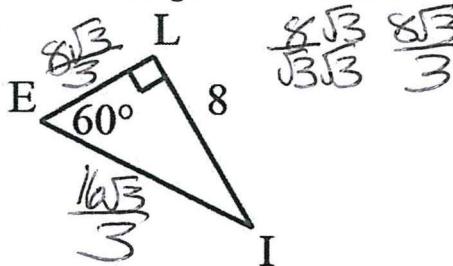
26. $\frac{12\sqrt{3}}{\sqrt{3}\sqrt{3}} \left(\frac{\sqrt{3}}{\sqrt{3}} \right)$

$$\left(\frac{3\sqrt{2}}{3} \right)$$

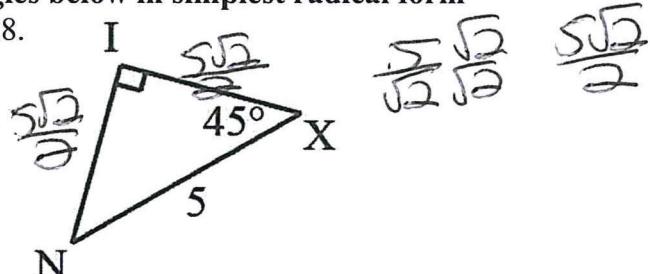
$$\left(\frac{4\sqrt{3}}{3} \right)$$

Find the missing sides for each of the triangles below in simplest radical form

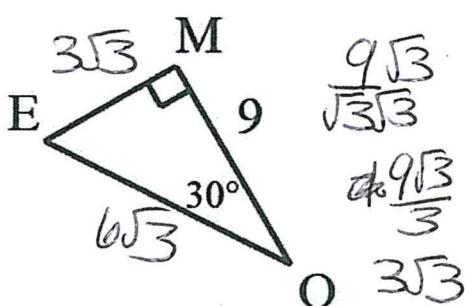
27.



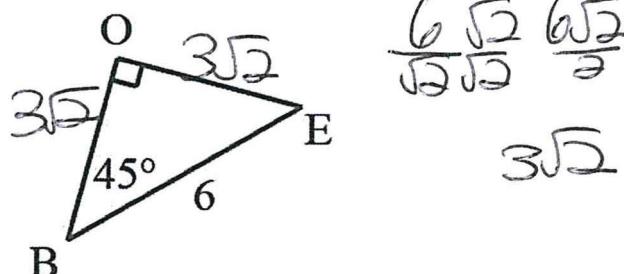
28.



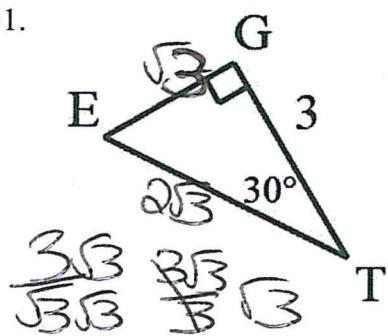
29.



30.



31.



32.

