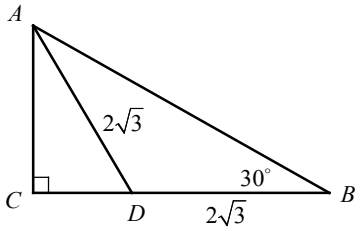
Exercises - Pythagorean Theorem and Special Right Triangles

1



In the figure above, if $AD = BD = 2\sqrt{3}$, what is the length of AB?

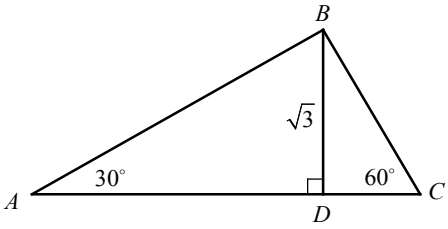
A) $4\sqrt{3}$

B) $3\sqrt{6}$

C) 6

D) $6\sqrt{2}$

2



In ΔABC above, $BD = \sqrt{3}$. What is the perimeter of ΔABC?

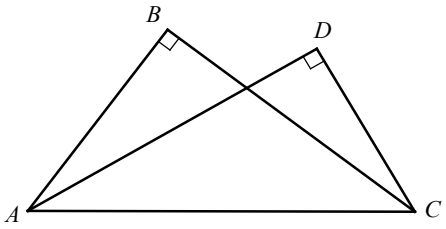
A) $2\sqrt{2}+6$

B) $2\sqrt{3}+6$

C) $2\sqrt{6}+6$

D) $3\sqrt{2}+6$

3



Note: Figure not drawn to scale.

In the figure above, $AB = 6$, $BC = 8$, and $CD = 5$. What is the length of AD?

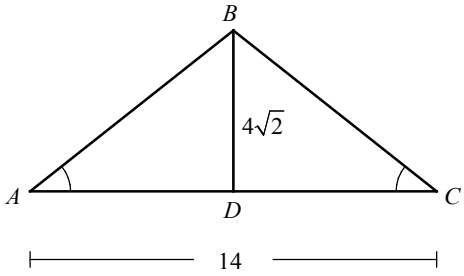
A) $4\sqrt{3}$

B) $5\sqrt{2}$

C) $5\sqrt{3}$

D) $6\sqrt{2}$

4



Note: Figure not drawn to scale.

In the figure above, $\angle A \cong \angle C$ and $\overline{BD}$ bisects $\overline{AC}$. What is the perimeter of ΔABC?

A) 32

B) 36

C) $14+10\sqrt{2}$

D) $14+12\sqrt{2}$