



Simplify $\sqrt[3]{-216 x^3 y^{12}}$.

Drag and drop your answer to correctly complete the equation.

$$\sqrt[3]{-216 x^3 y^{12}} = \boxed{}$$

- A) $-6x^2y^6$ B) $6xy^4$ C) $6x^2y^6$ D) $-6xy^4$

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Simplify the expression $\sqrt{49(x^3 + 4)^6}$.

Drag and drop your answer to correctly complete the equation.

$$\sqrt{49(x^3 + 4)^6} = \boxed{}$$

- A) $7(x^3 + 4)^3$ B) $7(x^3 + 2)^3$ C) $7|(x^3 + 2)^3|$ D) $7|(x^3 + 4)^3|$

The speed of a tsunami is given by $s = \sqrt{9.8d}$, where d is the ocean depth in meters. Calculate the approximate speed of the wave in m/s if the ocean depth is 1100 meters.



A) 108 m/s

B) 104 m/s

C) 112 m/s

D) 100 m/s