



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

Drag and drop your answer to correctly complete the equation.

$$\sqrt[3]{-216 x^3 y^{12}} = \boxed{\phantom{000000}}$$

- 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.

$$\sqrt{49(x^3 + 4)^6} = \boxed{\phantom{000000}}$$

- 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