

NC EMPT'S
QUESTION?
of The week

A 20-foot ladder leans against a wall so that the base of the ladder is 7 ft. from the base of the building. To find the angle, A , the ladder makes with the ground, which equation below can be used:

A. $\sin A = \frac{7}{20}$

B. $\tan A = \frac{20}{7}$

C. $\tan A = \frac{7}{20}$

D. $\cos A = \frac{7}{20}$

E. $\sin A = \frac{20}{7}$

Last Week's Answer

If a rectangular box has sides of length x , $x + 4$, $x - 5$ (where $x > 5$), the volume of the box is:

A. $x^3 - x^2 - 20x$

B. $x^3 + x^2 - 20x$

C. $x^3 - x^2 - 20$

D. $x^3 - 20$

E. $x^3 - x - 20$

Solution:

$$V = l \cdot w \cdot h$$

$$V = (x)(x - 5)(x + 4)$$

$$V = x(x^2 - x - 20)$$

$$V = x^3 - x^2 - 20x$$

Each week, we'll reveal the answer to the previous week's question!

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