

11/07/2024 – Pythagorean Theorem**Review of Unit 2 for Grade 7 and 8 Math (7A and PreAlgebra) – Fun theme: Triangles**Questions to follow along with show. Watch: [Math Homework Hotline](#)

- 1) What are equivalent forms of mixed number as an improper fraction, decimal, and percent? (MA.7.NSO.1.2)

$$7\frac{2}{9}$$

- 2) Express the approximate value of the expression on the number line. (MA.8.NSO.1.1)

$$\sqrt{6} - 1$$

- 3) Determine whether each statement is true or false. (MA.8.NSO.1.2)

	True	False
$8\frac{2}{3} < \sqrt{10}$		
$\sqrt[3]{9} > -\sqrt{9}$		
$4.\bar{5} \leq \sqrt{16}$		

- 4) Which symbol will make the statement true? (MA.8.NSO.1.2)

$$-6\frac{2}{3} \quad \bigcirc \quad \sqrt[3]{-216}$$

- 5) Find the value(s) of y in the equation. (MA.8.AR.2.3)

$$y^2 - 3 = 33$$

- 6) Find the value of the expression and state possible equivalent forms. (MA.8.NSO.1.7)

$$\frac{-\sqrt{100} + 5}{5^3} - 2\sqrt{36}$$

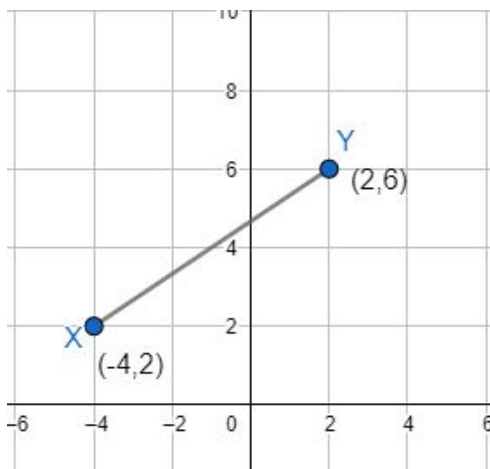
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- 7) To get to his parents' house, Andrew would have to drive due north 8 miles. To get to his grandparents' house, he would have to drive due east 15 miles. What is the straight-line distance between the parents' and grandparents' houses? (MA.8.GR.1.1)

- 8) Mr. Harrell is leaning a 16-foot ladder against the side of his house to repair the roof. The top of the ladder reaches the roof, which is 12 feet high. How far away from the house is the base of the ladder where Mr. Harrell's son is holding it steady? Round to the nearest hundredths, if necessary. (MA.8.GR.1.1)

- 9) What is the length of line segment XY in the graph? Round to the nearest tenths, if necessary. (MA.8.GR.1.2)



- 10) What is the approximate distance between the points $(-3, 4)$ and $(2, -3)$? Round to the nearest tenths, if necessary. (MA.8.GR.1.2)