Bell Work

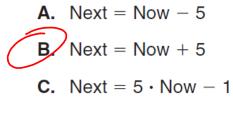
4/15/2015

Grab your calculator and the EOC Practice Questions.

Begin working on the questions. Please treat this as a test and be quiet.

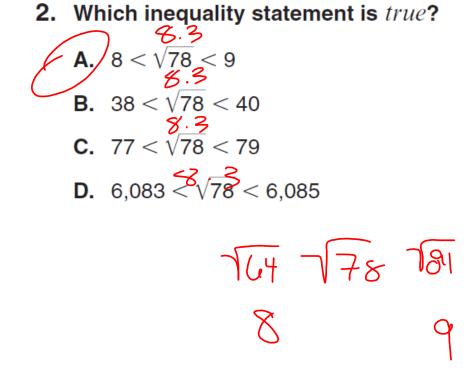
1. If the first Now = -9, which equation represents this sequence?

-9, -4, 1, 6, 11, ...

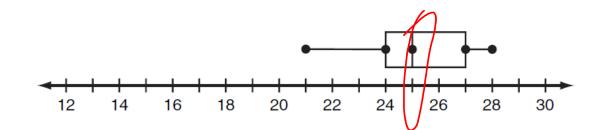


D. Next =
$$5 \cdot \text{Now} + 1$$

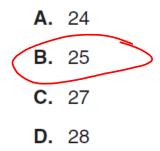




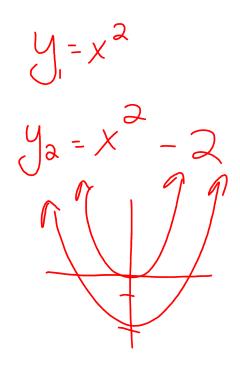
3. Daniel made a box-and-whisker plot of the ages of his cousins.



What is the median age of his cousins?



- 4. Given $y = x^2$, how would the graph of $y = x^2 2$ differ?
 - A. It shifts 2 units up.
 - **B.** It shifts 2 units down.
 - C. It shifts 2 units left.
 - **D.** It shifts 2 units right.



5. Given the following fractions:

$$\frac{3}{4}, \frac{18}{29}, \frac{24}{39}, \frac{3}{5}, \frac{12}{18}$$

Which group below has the fractions in order from least to greatest?

A. $\frac{3}{5}, \frac{24}{39}, \frac{18}{29}, \frac{12}{18}, \frac{3}{4}$, le, le1, le2, le6, 75 **B.** $\frac{3}{4}, \frac{3}{5}, \frac{18}{29}, \frac{24}{39}, \frac{12}{18}$ **C.** $\frac{3}{5}$, $\frac{12}{18}$, $\frac{24}{39}$, $\frac{3}{4}$, $\frac{18}{29}$ **D.** $\frac{3}{4}, \frac{3}{5}, \frac{12}{18}, \frac{18}{29}, \frac{24}{39}$

6. The automobile repair shop uses the following chart to determine labor costs for each job.

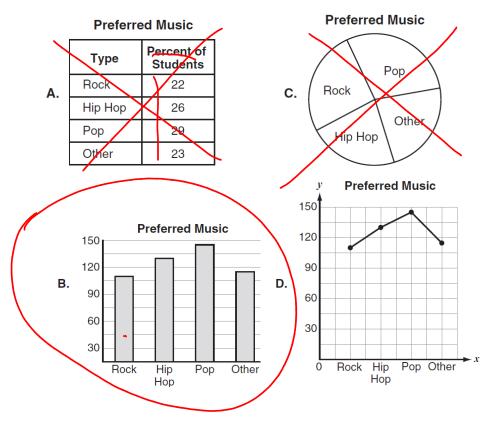


Which function should the automobile repair shop use to determine the labor cost, C, for a job that takes h hours?

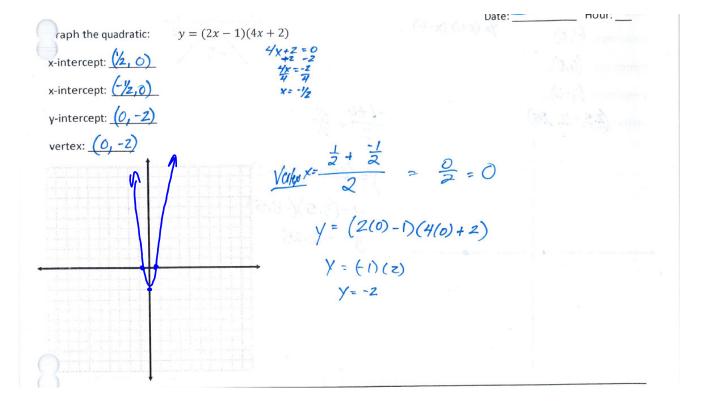
A.
$$C = 15h$$

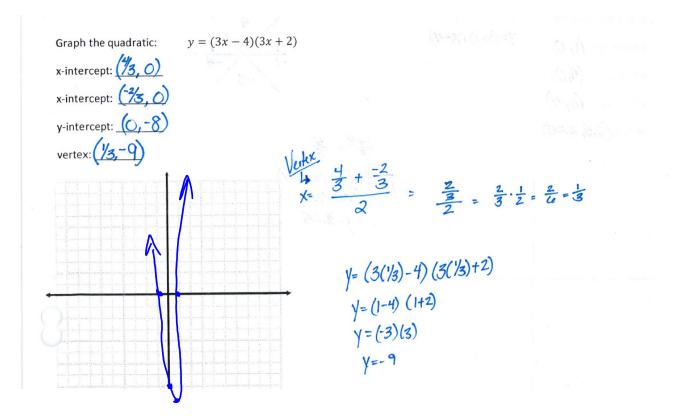
B. $C = 15h + 10$
C. $C = 25 + 15h$
D. $C = 25h + 15h$

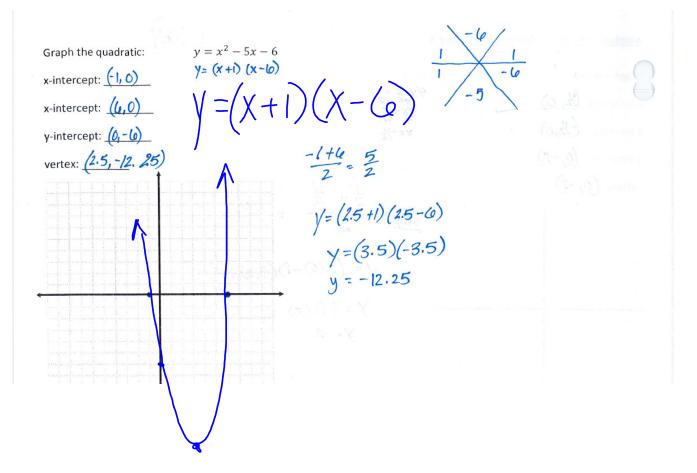
7. A survey was administered to 500 high school students to determine the type of music they prefer. The survey indicated that 22% prefer rock, 26% prefer hip hop, 29% prefer pop, and 23% selected "other." Which representation best illustrates the *number* of students preferring each type of music?

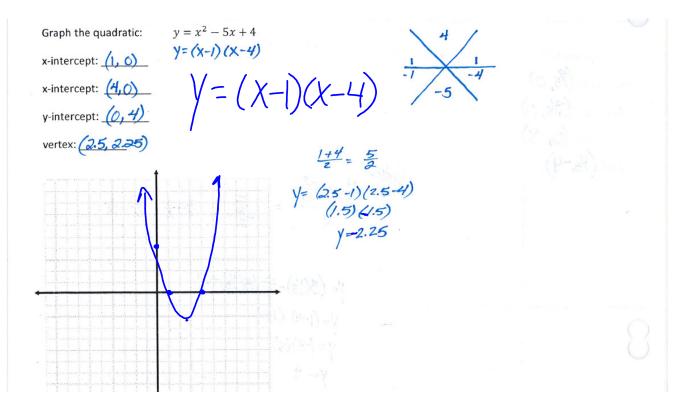


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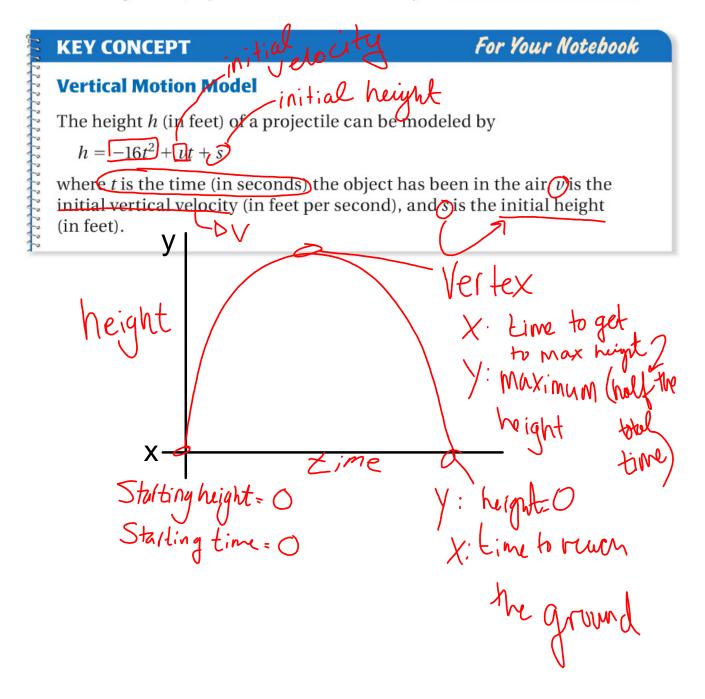


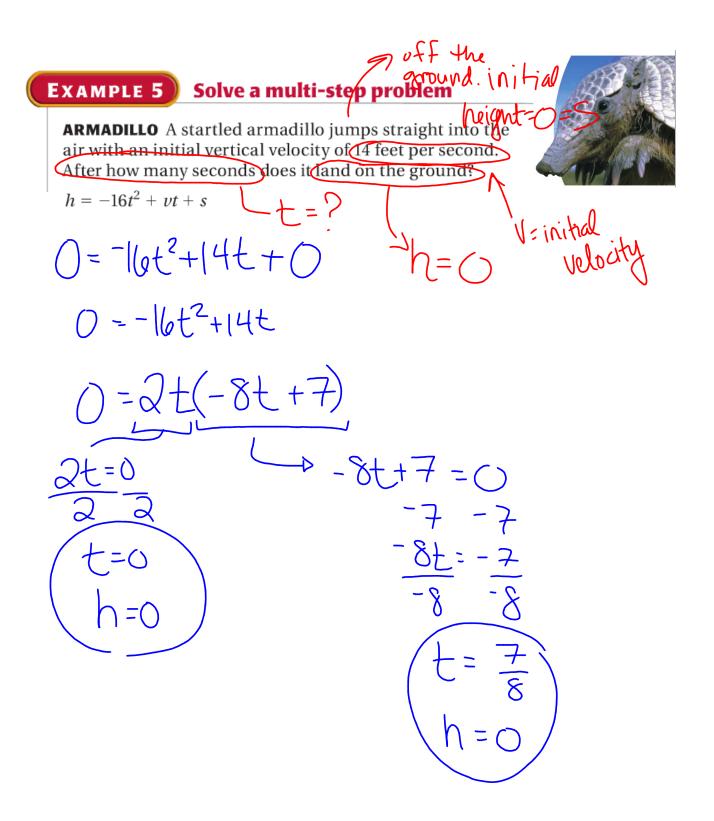


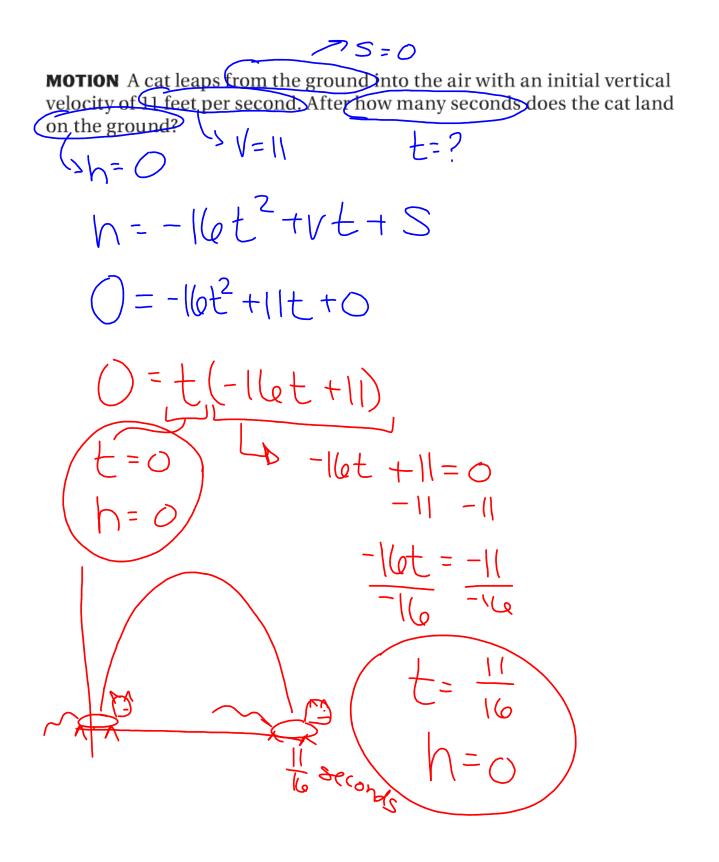




VERTICAL MOTION A *projectile* is an object that is propelled into the air but has no power to keep itself in the air. A thrown ball is a projectile, but an airplane is not. The height of a projectile can be described by the **vertical motion model**.







SPITTLEBUG A spittlebug jumps into the air with an initial vertical velocity of 10 feet per second.

a. Write an equation that gives the height of the spittlebug as a function of the time (in seconds) since it left the ground.

$$h = -16t^2 + 10t + 0$$



b. The spittlebug reaches its maximum height after 0.3125 second. How high can it jump?

$$h = -16(0.3125)^2 + 10(0.3125)$$

(h = 1.5625 feet)

Hot Air Balloon Kickball Diving Board