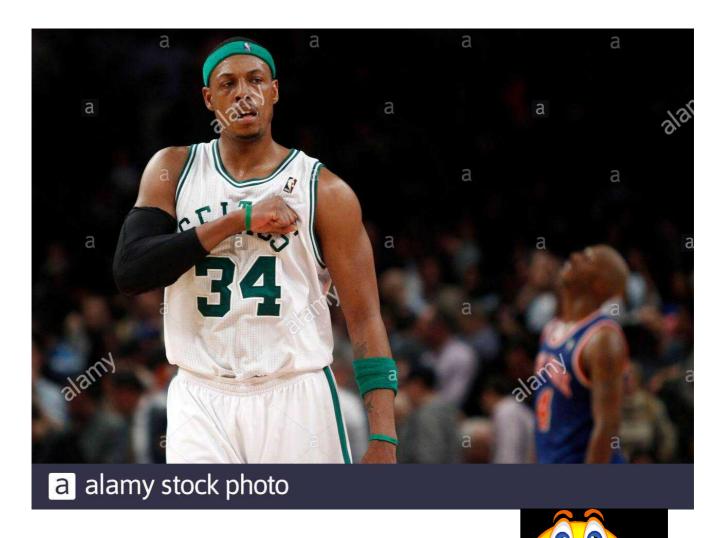


You can do this!!!





You can do this!!!

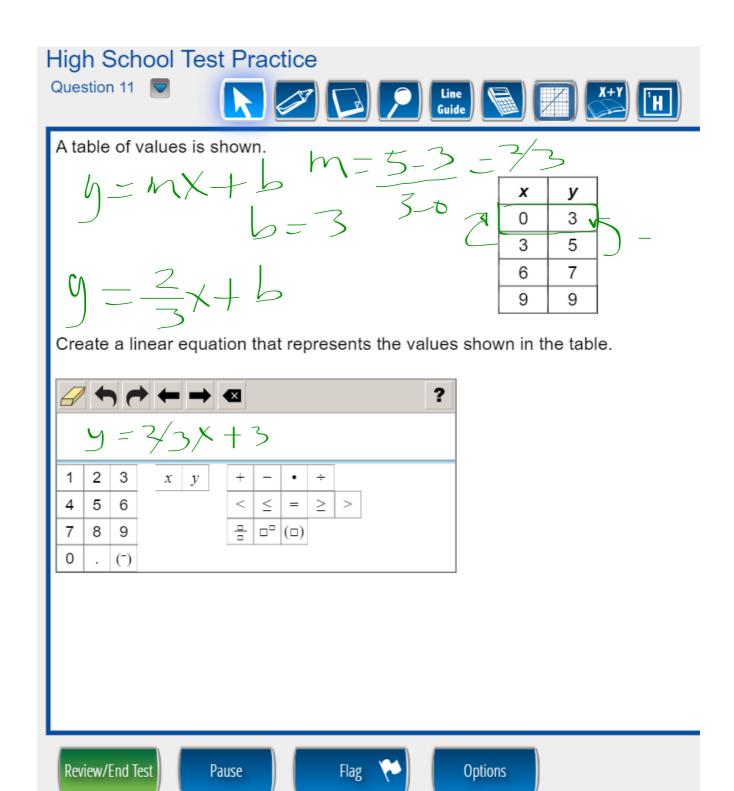
# EOC Online Practice 4/26/2021

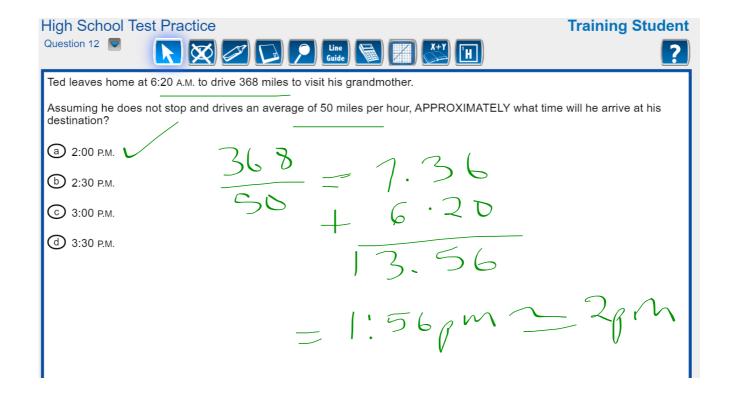
- 1. Go to the website "Welcome to Experience Online Testing Georgia" (http://gaexperienceonline.com/).
- 2. Select "Test Practice."
- 3. Under "End-of-Course (EOC) All Assessments," select "Online Tools Training."
- 4. Select "EOC Test Practice."
- 5. Select "Technology Enhanced Items."
- 6. You will be taken to a login screen. Use the username and password provided on the screen to log in

and practice navigating technology-enhanced items online.

# Note!!!

- 1. Only use Google Chrome
- A constructed-response item is worth two points.
- 3. Partial credit may be awarded if part of the response is correct.
- 4. An extended constructed-response item is worth four points.
- 5. Partial credit may be awarded if part of the response is correct.





## **High School Test Practice**

Question 13 Page 1 of 2























Luis is looking at two rectangles with side lengths given as algebraic expressions.

Part A

The area of the first rectangle is  $x^2 + 6x$ .

factor Using

Which could be the length and width of the rectangle?

Length: x, Width: x + 6

X2+6X

GCF=X

b Length: x, Width:  $x^2 + 6$ 

© Length:  $x^2$ , Width: 6x

d Length: 2x, Width: 3

 $\chi (\chi + 6)$ 

### **High School Test Practice**

Question 13 Page 2 of 2















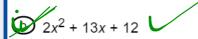






Luis is looking at two rectangles with side lengths given as algebraic expressions.

#### Part B



© 
$$2x^2 + 25x$$

$$\bigcirc$$
 2 $x^2$  + 7 $x$  + 12

8



Question 14

























The set of ordered pairs shown represents a function f.

$$\{(-5, 3), (4, 9), (3, -2), (0, 6)\}$$

Select THREE ordered pairs that could be added to the set so that  $\emph{f}$  remains a function.





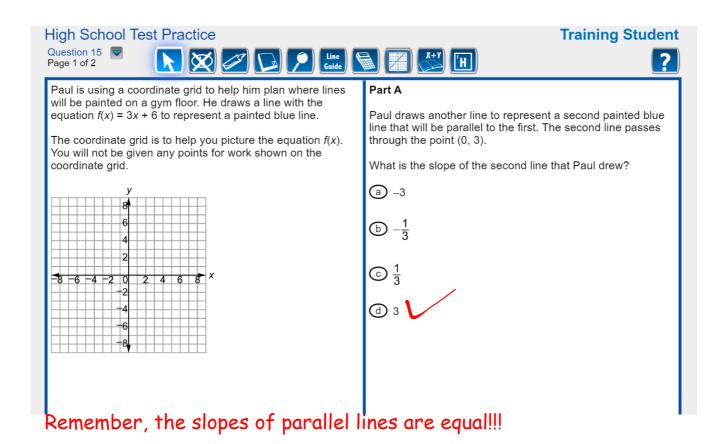


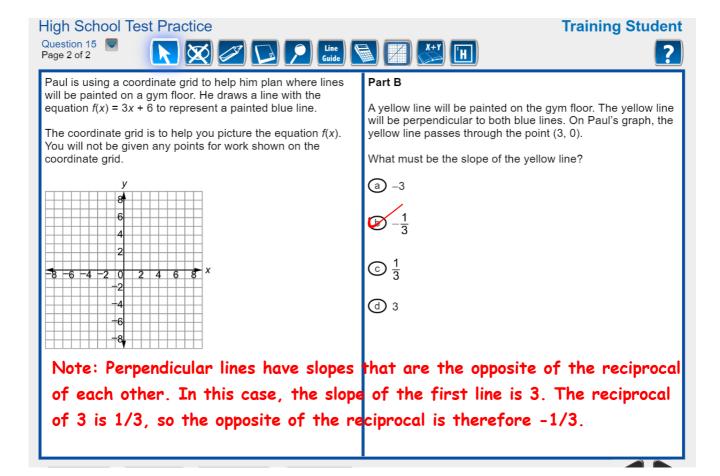


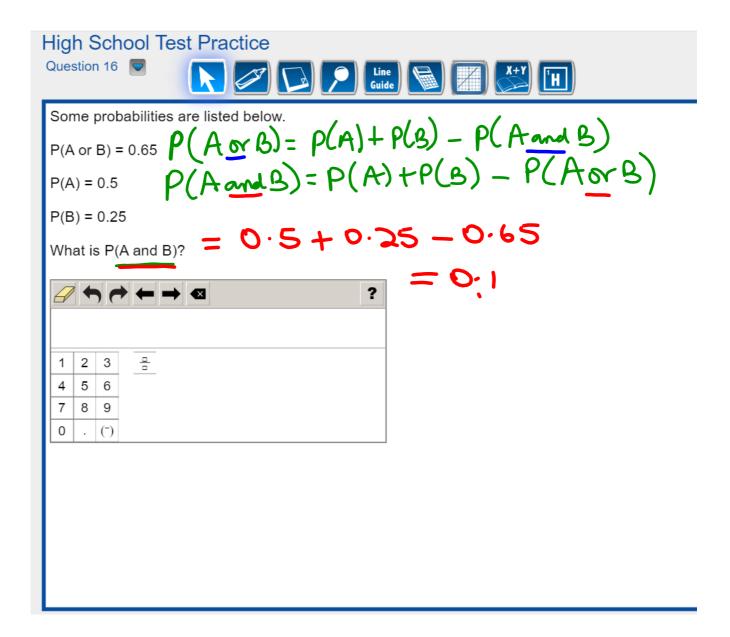


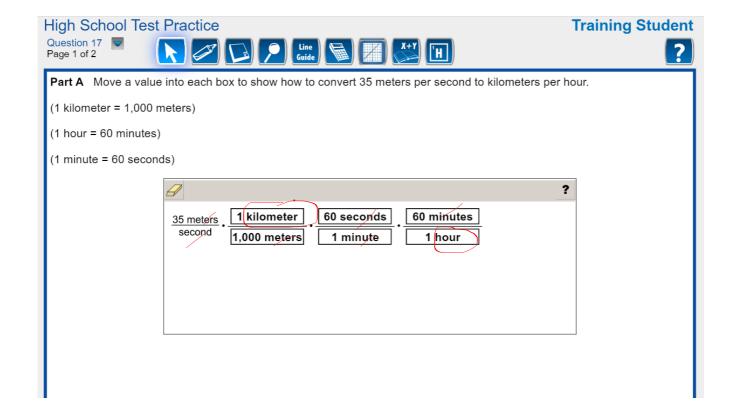


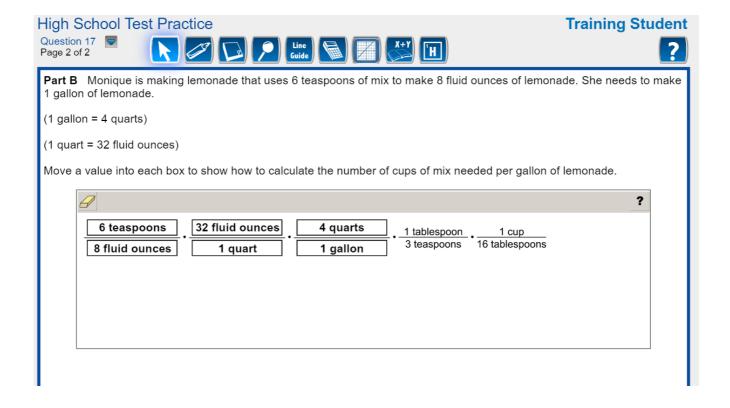
Remember, for it to be a function, the x values cannot repeat!

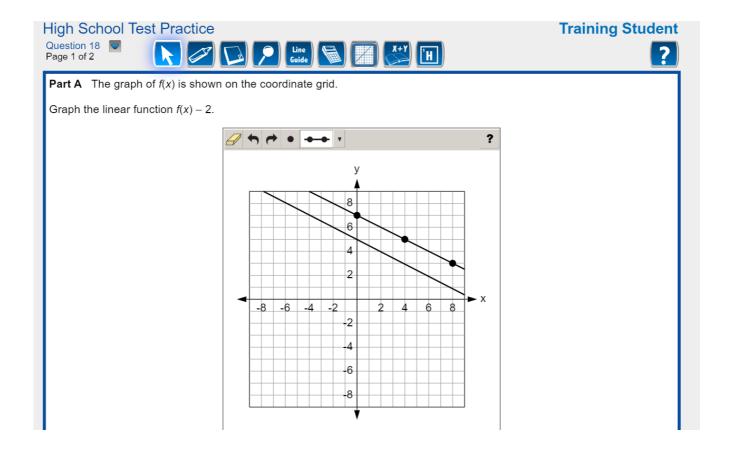


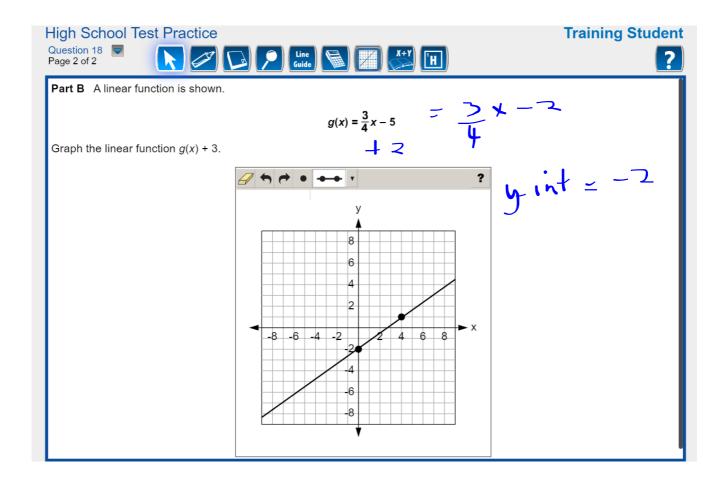








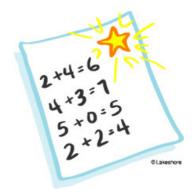




### **ALGEBRA I**

## What Can I Expect on the EOC?

- 73 Total Problems
- Types of Questions on Test:
  - o 58 Multiple Choice,
  - o 1 Technology-enhanced,
  - o 2 Constructed response,
  - o 11 Field test items,
  - o 1 Extended constructed response
- Time:
  - Section 1: 85 Minutes & Section 2: 85 Minutes
- · You can use the following provided items
  - Calculator (Except on 1 part)
  - o Formula sheet
  - o Graph paper



#### Algebra 1 Domains on Test

- o Equations---30%
- o Expressions---20%
- o Functions---35%
- Statistics & Probability---15%

#### **TEST-TAKING STRATEGIES**

- 1. Read the directions carefully and completely.
- 2. Read each question and all the answer choices carefully.
- 3. If you use scratch paper, make sure you copy your work to your test accurately.
- 4. Underline the important parts of each problem. Use the highlighter tool.
- 5. Be aware of time. If a question is taking too much time, come back to it later.
- 6. Answer all questions. Check your answers for accuracy.
- 7. For constructed-response questions, do as much as you can. Remember, partially right responses will earn a partial score.
- 8. Stay calm and do the best you can.

# Unit 1 - No Calc. Review



Name:

High School HS Algebra ALG\_PS\_EOC\_NO\_CALC\_Friday



1.	The	sum of v	$\sqrt{18}$ and $6$	$\sqrt{2}$ is $\sqrt{18} + 6\sqrt{2}$
	A) B)	$7\sqrt{20}$ $14\sqrt{5}$	1 18	19.12+6-12
	C)	$15\sqrt{2}$ $9\sqrt{2}$	36	3/5+6/5

2. The expression  $\sqrt{50}$  is equivalent to

D)  $5\sqrt{10}$ 

The expression 
$$\sqrt{50}$$
 is equivalent to

A)  $5\sqrt{2}$ 
B)  $25\sqrt{2}$ 
C)  $2\sqrt{5}$ 
D)  $5\sqrt{10}$ 

3. What is the solution for this system of equations?

$$\begin{cases} x = 5 - 3y \\ 5x + 15y = 25 \end{cases}$$

Block:

- A) (-1, 2)
- B) (5, 0)
- (Infinitely Many Solutions

25=25

$$5(5-3y)+15y=25$$
  
 $25-15y+16y=25$ 

3x=7x-> No solution

$$3x = 6 \rightarrow 1$$
 Solution

## **Test Taking Tips**

- 1. Plans
  - 1. Work it out (show all steps)
  - 2. Use calculator for assistance (table, data, graphing)
  - Elimination (guess and check)

### 2. Reminders

- 1. You have 85 minutes with 25 and 10 minute warnings (don't leave anything blank)
- Use extra time to check (be super sure before you logout)
- 3. You have plenty of scratch paper (ask for extra)
- 4. You have two calculators
- 5. You can only do your best

# Unit 1 - Calc. Review

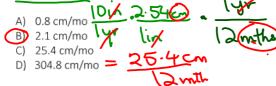


High School HS Algebra ALG\_PS\_EOC\_Friday

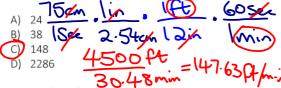


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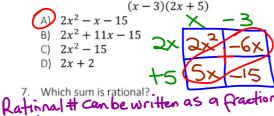
Enrique's dog grew 10 inches during a year, between its first visit to the vet and its one-year-checkup.
 Approximately how many centimeters did the dog grow per month? Use the approximate conversion 1 in ≈ 2.54 cm.



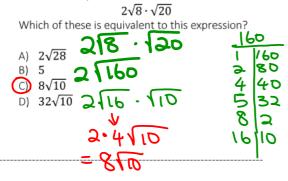
5. A mosquito can fly 75 centimeters per second. Considering 1 inch is approximately 2.54 centimeters long, how many feet can the bug travel in a minute?



6. Which of the following expressions is equivalent to the one shown below?



8. Look at the expression



9. A sequence is shown below.  $Q_{n} = Q_{i} + (n-i)A$ 10, 12, 14, 16, ...

Block:

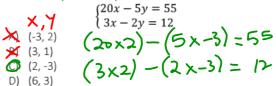
Which function can be used to determine the nth number in the sequence? d = 2

A) 
$$a_n = n + 2$$
  $a_n = 10 + 2 - 2$ 
B)  $a_n = 10(2)^{n-1}$   $a_n = 2n + 10$   $a_n = 2n + 8$ 
D)  $a_n = 2n + 8$   $a_n = 2n + 8$ 

10. A student store sold a total of 55 shirts for \$620. The shirts sold were either red or white. If the red shirts sold for \$12 each and the white shirts sold for \$10 each, how many red shirts were sold?

(A) 
$$\frac{10^{10}}{35}$$
 ( $\frac{7}{4}$  +  $\frac{70}{2}$  =  $\frac{70}{2}$   
B)  $\frac{28}{12}$   $\frac{12^{10}}{120}$  +  $\frac{10^{10}}{120}$  =  $\frac{10^{10}}{120}$  ( $\frac{10^{10}}{120}$  +  $\frac{10^{10}}{120}$  =  $\frac{10^{10}}{120}$  ( $\frac{10^{10}}{120}$  +  $\frac{10^{10}}{120}$  =  $\frac{10^{10}}{120}$  ( $\frac{10^{10}}{120}$  +  $\frac{10^{10}}{120}$  =  $\frac{10^{10}}{120}$ 

11. Solve the system of equations below:

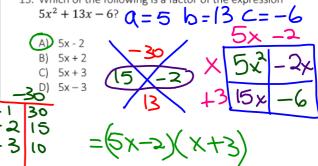


- 12. If the value of a car over time can be modeled by the equation  $y = 21000(0.88)^x$ , which of the following equations are true?

  LEAY

  1.0.88=0.12
  - A) The car was bought for \$21000, and is losing 88% of its value each year.
  - B) The car was bought for \$21000, and increasing in value by 88% each year.
  - The car was bought for \$21000, and is losing 12% of its value each year.
  - D) The car was bought for \$18480, and is losing 12% of its value each year.

13. Which of the following is a factor of the expression



14. Which of the following is the factored form of the function  $f(x) = 9x^2 - 16$ ?

A) 
$$f(x) = (3x - 4)(3x - 4)$$

(B) 
$$f(x) = (3x + 4)(3x - 4)$$

C) 
$$f(x) = (3x - 8)(3x - 8)$$

D) 
$$f(x) = (3x - 8)(3x + 8)$$

15. What are the intercepts of the function below?

$$g(x) = x^2 + 3x - 10$$

- A) (2, 0), (-5, 0), and (-10, 0)
- B) (-2, 0), (5, 0), and (-10, 0)
- (2, 0), (-5, 0), and (0, -10)
  - D) (-2, 0), (5, 0), and (0, -10)

$$(14) f(x) = 7x^2 - 16$$

This is a difference of squares problem!

Remember: 
$$a^2 - b^2$$
  
 $= (a+b)(a-b)$   
 $f(x) = 9x^2 - 16$   
 $g(x) = 3x - 16$   
 $g(x) = (3x+4)(3x-4)$   
 $g(x) = x^2 + 3x - 10$ 

The question is asking, what are the zeros, or roots, or solutions, or x-intercepts and what is the y-intercept?

The y-intercept is (0, -10)

We have to factor to get the x-intercepts