Unit 2 - No Calc. Review



High School HS Algebra ALG_PS_EOC_NO_CALC_Unit 2



1. What value of x=? makes the relation not a function?

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A	J -J

B) 0

C) 4

(MGSE9-12.F.IF.1) Understand Functions

2. The cost of tuition at Johnson Community College is \$160 per credit hour. Each student also has to pay \$50 in fees. Model the cost, C, for x credit hours

1

6

8

2 5 8

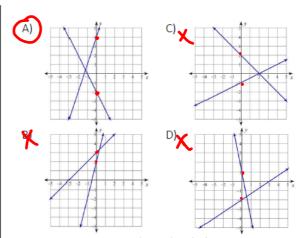
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- A) C(x)=50x
- B) C(x)=160x
- C) C(x)=110x
- D)C(x)=160x+50

(MGSE9-12.N.Q.2) Descriptive Modeling

3. Which of the following is the graph of 4+3x=-2x-2?

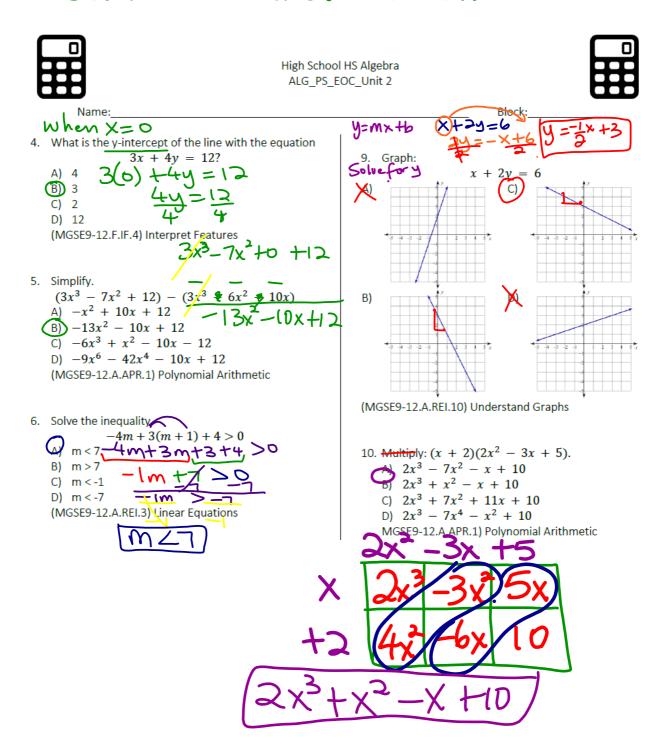




Block:

MGSE9-12.A.REI.12) Graph Solutions

Unit 2 - Calc. Review



- 7. Solve 3(x+1) 2x + 4 = -4 + 4(x+1) 4xA) x = 1B) x = 5C) x = -7D) x = -9(MGSE9-12.A.REL3) Linear Equations
- Allie needs at least 50 hours of community service for social studies class. She already has 20. How
- many more hours does she need? Write an inequality to model this situation.
 - $x + 20 \le 50$
 - B) x + 20 ≥ 50
 - C) x 20 ≥ 50
 - $x + 50 \ge 20$

(MGSE9-12.A.CED.1) Create Equations

11. What is the x-coordinate at the point of intersection for these equations?

$$f(x) = 2.8x - 12$$

$$g(x) = 5.8x + 9$$
A) -7
B) -3
C) 3
D) 7
$$3 \times +9 = 2.8 \times -12$$
(MGSE9-12.A.REI.11) Explain Solutions To F(x) =
$$G(x) = 3 \times -21 \times -21$$

12. If x + 4y = 18 and x - 4y = 2, then y = ?

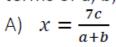
- (A) 2 X+4y=18B) 4 + (X-4y=2)
- C) 10 2x = 20 x = 0 D) no solution x = 0

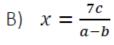
(MGSE9-12.A.REI.5) System Of Equations

$$\begin{array}{c|c}
10 - 4y = 2 \\
-4y = 2 - 10 \\
-4y = -8 \\
-4 - 4
\end{array}$$

13. To solve this system of equations by elimination, what operation could be used to eliminate the y-variable and find the value of x?

- add 3 times the second equation to 4 times the first equation
- B) add 4 times the second equation to 3 times the first equation
- subtract 3 times the second equation from 4 times the first equation
- subtract 4 times the second equation from 3 times the first equation (MGSE9-12.A.REI.5) System Of Equations
- 14. Given 7cx + b = a, rearrange the equation for x, in Leguations terms of a, b, and c.





C)
$$x = \frac{a+b}{7c}$$

