

Answers to Final REVIEW MC (ID: 1)

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|-------|-------|-------|-------|
| 1) D | 2) C | 3) A | 4) A |
| 5) C | 6) C | 7) B | 8) C |
| 9) A | 10) C | 11) A | 12) C |
| 13) D | 14) D | 15) B | 16) B |
| 17) D | 18) A | 19) D | 20) C |
| 21) C | 22) C | 23) A | |

Answers to (ID: 1)

24) C
28) D
32) A
36) C

25) C
29) A
33) C

26) B
30) D
34) A

27) A
31) A
35) A

Math 2B Final REVIEW (FR)

NAME: _____ HOUR: _____

1-2 Solve the following systems of non-linear equation, for x and y.

1. $y = x^2 + 4x + 16$

$$y = 12x$$

$$x = 4$$

$$y = 48$$

2. $y = x^2 + 6x + 4$

$$y = -4x - 5$$

$$x = -9, -1$$

$$y = 31, -1$$

3. Write the following phrase as an expression: "Sum of two times a number x and five".

$$2x + 5$$

4. Write the following expression as a phrase: $4 - \frac{3}{x}$

the difference of four and "the quotient of three and a number x"

5. Annaliese is measuring the progress of her plant's growth. Today the plant is 7 cm high. The plant grows 1.5 cm per day. How many days will it take for Annaliese's plant to be 22 cm tall? **WRITE AN EQUATION** that represents the situation and then **SOLVE** the equation.

$$7 + 1.5x = 22$$

$$x = 10 \text{ days}$$

6. McCall is planting a garden with the length 3 feet more than the width. What is the length and width of the garden if the area of the garden is 70 ft²? **WRITE AN EQUATION** that represents the situation and then **SOLVE**.

$$(3+w)w = 70$$

$$w = 7$$

$$l = 10$$

PROBABILITY

Given the sets below, find the following:

Sample Space: {1,2,3,4,5,6} A: {1,2,3,4} B: {3,4,5} C: {2,3}

7. What is $A \cup B$?

{1,2,3,4,5}

8. What is $A \cap B$?

{3,4}

9. a) Is $A \subset C$? Circle one. YES **NO**

b) Is $C \subset A$? Circle one. **YES** NO

10. What is A^c ?

{5,6}

A survey is conducted to see if people think football and soccer are awesome, yes or no. Use the table to answer the following questions.

11-14 Use the table to the right to answer.

11. What is the $P(\text{Soccer or Yes})$?

$329/650$ 51%

	Soccer	Football	Total
Yes	231	59	290
No	39	321	360
Total	270	380	650

12. What is the $P(\text{Football and No})$?

$321/650$ 49%

13. What is the $P(\text{Yes})$?

$290/650$ 45%

14. What is the $P(\text{No}|\text{Soccer})$?

$39/270$ 14%