

# ALGEBRA I FINAL EXAM

Directions: Choose the best answer for each question.

1. Find the difference of the polynomials.

$$(3x^2 - 2xy + y^2) - (-5x^2 + 6xy - y^2)$$

- a.  $2x^2 - 3xy$
- b.  $8x^2 - 11xy$
- c.  $2x^2 - 3xy + 2y$
- d.  $8x^2 - 8xy + 2y^2$

3. Find the product.

$$(5x - 3y)(6x + y)$$

- a.  $30x^2 + 23xy + 3y^2$
- b.  $30x^2 - 13xy - 3y^2$
- c.  $35x - xy - 4y^2$
- d.  $15x^2 - 23xy - 3y^2$

5. What property is represented below?

$$6 \cdot (3 \cdot 2) = (3 \cdot 2) \cdot 6$$

- a. commutative property
- b. identity property
- c. inverse property
- d. associative property

7. Find the roots of the quadratic function.

$$f(x) = 6x^2 - 5x - 2$$

- a.  $x = 6; x = -2$
- b.  $x = \frac{5 \pm \sqrt{13}}{2}$
- c.  $x = 1 \pm \sqrt{73}$
- d.  $x = \frac{5 \pm \sqrt{73}}{12}$

2. Which inequality best represents the graph?

- a.  $y < \frac{2}{3}x + 1$
- b.  $y \leq \frac{2}{3}x + 1$
- c.  $y \geq \frac{2}{3}x + 1$
- d.  $y < -\frac{3}{2}x + 1$



4. Jeffrey bought a collectable baseball card for \$12. If the value of the card appreciated by 9.4% each year, how much will the card be worth in 7 years?

- a. \$22.51
- b. \$112.80
- c. \$1,241.06
- d. \$39.27

6. Evaluate the expression when  $x = 2$  and  $y = -3$ .

$$3y^2 - 2(5x + 3) - 1$$

- a. 0
- b. -3
- c. 10
- d. -4

8. Find the solution to the system of linear equations below.

$$\begin{aligned} 6x - 5y &= 1 \\ y &= 2x - 1 \end{aligned}$$

- a.  $(-1, 3)$
- b.  $(1, 1)$
- c.  $(1, 2)$
- d.  $(0, 2)$

# Answer To Jlab Algebra 1

**J Elliott**



### **Answer To Jlab Algebra 1:**

*N\* Physics and Nonperturbative Quantum Chromodynamics* Silvano Simula, Bijan Saghai, Nimai C. Mukhopadhyay, Volker D. Burkert, 2012-12-06 The Workshop N Physics and non perturbative QCD was held at the European Center for Theoretical Studies and Related Areas ECT in Trento Italy during May 18-29 1998 Previous workshops of the series on N Physics took place at the Florida State University 1994 at CEBAF 1995 at the Institute for Nuclear Theory in Seattle 1996 and at the George Washington University 1997 The Workshop was devoted to a summary of recent experimental and theoretical research on N physics and special emphasis was given to the information that photo and electro production of nucleon resonances can provide on the non perturbative regime of Quantum Chromodynamics The idea was to stimulate discussions among experimentalists and theoreticians in order to pursue the interpretation of the huge amount of forthcoming data from several laboratories in the world It was therefore decided to have both experimental and theoretical lectures on the main topics like among the others single and double pion production  $\pi\pi$  and K meson production the GDH sum rule the spin of the proton etc Thanks to the unusual two week extension of the Workshop the allotted time for the lectures was extended up to one hour in order to allow the invited lecturers to give a detailed presentation of their topics Finally various short contributions were selected to sharpen the discussion about selected items

**Embracing Mathematics** Peter Appelbaum, with David Scott Allen, 2008-06-30 This alternative textbook integrates pedagogy and content exploration in ways that are unique in mathematics education provoking new ideas for making mathematics education meaningful to teachers at all levels as well as their students

**Il Nuovo cimento della Società italiana di fisica**, 1973

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









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web sg iron 500 7 chemical composition carbon 3 28 3 55 3 44 3 47 silicon 1 87 2 09 2 16 2 14 manganese 0 867 0 477 0 476  
0 272 copper 0 456 0 553 0 472 0 557 sulphur 0 0866 0 0116 0 0133 0 00846 phosphorus 0 0472 0 0251 0 0230 0 0232  
nickel 0 0986 0 0229 0 0162 0 0199 changes are made only in the major elements of