5 CLEP COLLEGE Algebra

PRACTICE TESTS

EXTRA PRACTICE TO HELP ACHIEVE AN EXCELLENT SCORE

Second Edition

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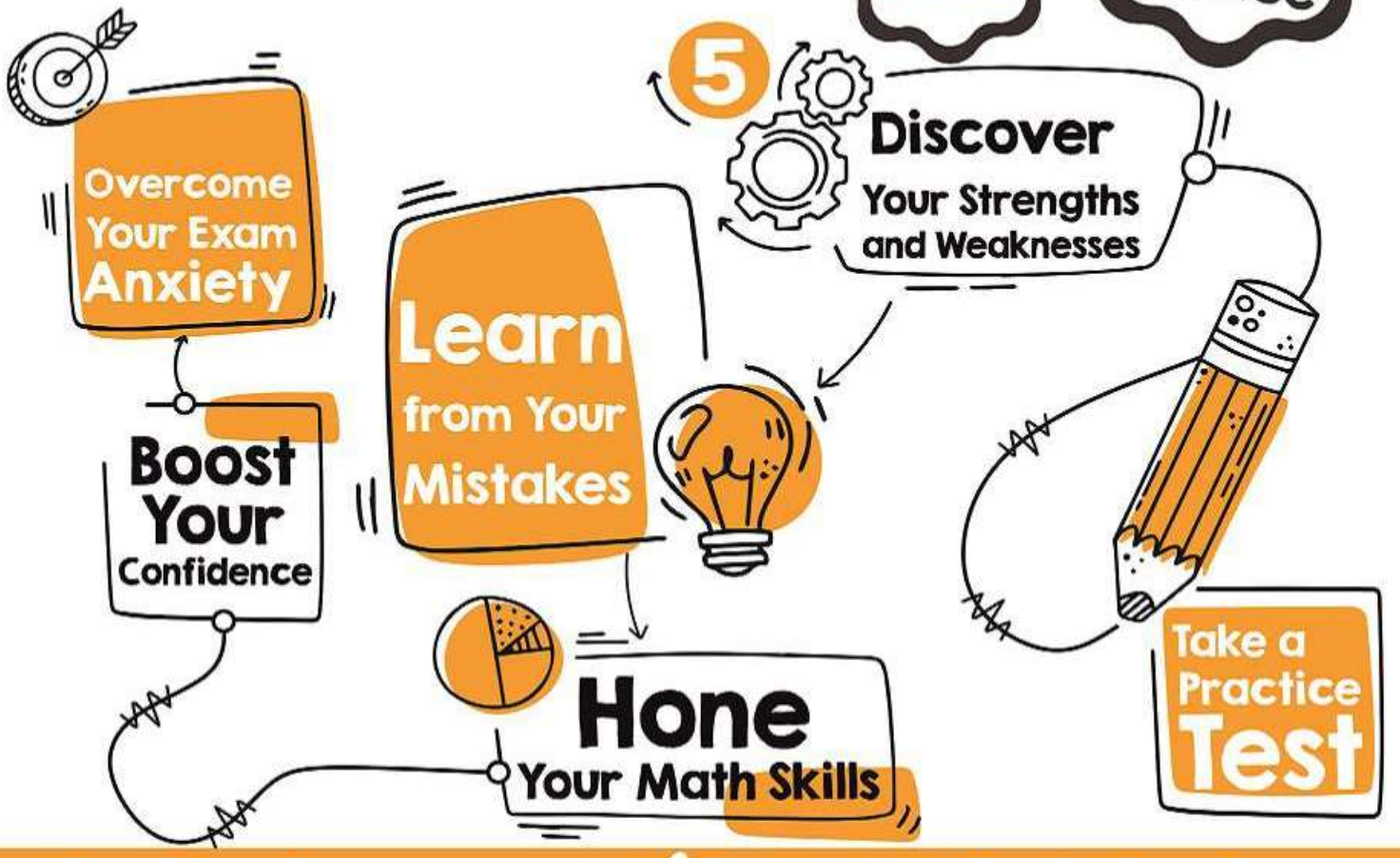

Reza Nazari

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Extra Practice to Help Achieve an Excellent Score

By

Reza Nazari

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Description

5 CLEP College Algebra Practice Tests, which reflects the 2020 and 2021 test guidelines, is a comprehensive practice book to help you hone your math skills, overcome your exam anxiety, and boost your confidence -- and do your best to succeed on the CLEP College Algebra Test. Five complete and realistic CLEP College Algebra practice tests help you learn how the test is structured and what mathematics concepts you need to master before the test day. The practice test questions are followed by detailed answers and explanations to help you find your weak areas, learn from your mistakes, and raise your CLEP College Algebra score.

The surest way to succeed on CLEP College Algebra Test is with intensive practice in every math topic tested-- and that's what you will get in ***5 CLEP College Algebra Practice Tests***. This CLEP College Algebra new edition has been updated to replicate questions appearing on the most recent CLEP College Algebra tests. This is a precious learning tool for CLEP Algebra test takers who need extra practice in math to improve their CLEP College Algebra score. After taking the CLEP College Algebra practice tests in this book, you will have solid foundation and adequate practice that is necessary to succeed on the CLEP College Algebra test. **This book is your ticket to ace the CLEP College Algebra test!**

5 CLEP College Algebra Practice Tests includes many exciting and unique features to help you improve your test scores, including:

- Content 100% aligned with the 2020 - 2021 CLEP College test
- Prepared by CLEP College Algebra instructors and test experts
- Complete coverage of all CLEP College Algebra concepts and topics which you will be tested
- Detailed answers and explanations for every CLEP College Algebra practice question to help you learn from your mistakes
- 5 complete practice tests (featuring new question types) with detailed answers
- And much more!

This CLEP College Algebra practice book and other Effortless Math Education books are used by thousands of students each year to help them review core content areas, brush-up in math, discover their strengths and weaknesses, and achieve their best scores on the CLEP College Algebra test.

18) For his Physics class, Robert has scored 89, 76, and 98 on three of his tests so far. What is the minimum score Robert needs to receive on his 4th test to have an average of 90?

A. 95

B. 97

C. 98

D. 100

E. 120

19) Removing which of the following numbers will change the average of the numbers to 6?

$$1, 4, 5, 8, 11, 12$$

A. 1

B. 4

C. 5

D. 8

E. 11

20) Tickets to a movie cost $\$12.50$ for adults and $\$7.50$ for students. A group of 12 friends purchased tickets for $\$125$. How many student tickets did they buy?

A. 3

B. 5

C. 7

D. 8

E. 9

21) For what value of x is the proportion true? $x: 40 = 20: 32$

A. 16

B. 20

C. 25

D. 28

E. 32

22) A football team had $\$20{,}000$ to spend on supplies. The team spent $\$14{,}000$ on new balls. New sport shoes cost $\$120$ each. Which of the following inequalities represent the number of new shoes the team can purchase?

A. $120x - 14{,}000 \leq 20{,}000$

B. $120x + 14{,}000 \leq 20{,}000$

C. $120x + 14{,}000 \geq 20{,}000$

D. $14{,}000x + 120 \leq 20{,}000$

E. $14{,}000x + 120 \geq 20{,}000$

23) Jack earns $\$616$ for his first 44 hours of work in a week and is then paid 1.5 times his regular hourly rate for any additional hours. This week, Jack needs $\$826$ to pay his rent, bills and other expenses. How many hours must he work to make enough money in this week?

A. 40

B. 43

C. 48

D. 52

E. 54

24) What is the center and radius of a circle with the following equation?

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

A. $C(3,-5), r=\sqrt{5}$

B. $C(-3,5), r=\sqrt{5}$

C. $C(3,-5), r=5$

D. $C(-3,5), r=5$

E. $C(-3,-5), r=5$

25) Ella (E) is 4 years older than her friend Ava (A) who is 3 years younger than her sister Sofia (S). If E, A and S denote their ages, which one of the following represents the given information?

A. $\begin{cases} E=A+4 \\ S=A-3 \end{cases}$

B. $\begin{cases} E=A+4 \\ A=S+3 \end{cases}$

C. $\begin{cases} A=E+4 \\ S=A-3 \end{cases}$

D. $\begin{cases} E=A+4 \\ A=S-3 \end{cases}$

E. $\begin{cases} E=A-4 \\ A=S+3 \end{cases}$

26) In five successive hours, a car traveled $40\ km, 45\ km, 50\ km, 35\ km$ and $55\ km$. In the next five hours, it traveled with an average speed of $65\ km\ per\ hour$. Find the total distance the car traveled in 10 hours.

A. $425\ km$

B. $450\ km$

C. $550\ km$

D. $600\ km$

E. $650\ km$

27) The price of a sofa is decreased by 25% to $\$420$. What was its original price?

A. $\$480$

B. $\$520$

C. $\$560$

D. $\$600$

E. $\$800$

28) Anna opened an account with a deposit of $\$3{,}000$. This account earns 5% simple interest annually. How many years will it take her to earn $\$600$ on her $\$3{,}000$ deposit?

A. 2

B. 4

C. 5

D. 6

E. 8

29) Which of the following is the same as: $0.000{,}000{,}000{,}000{,}042{,}121$?

A. $42{,}121 \times 10^{-10}$

B. 42.121×10^{-12}

C. 4.2121×10^{-13}

D. 4.2121×10^{14}

E. 4.2121×10^{-14}

30) What is the 15th term of the arithmetic sequence $\frac{1}{2}x,\ \frac{1}{2}x+3,\ \frac{1}{2}x+6$, …?

A. $\frac{1}{2}x+15$

B. $\frac{1}{2}x+18$

C. $\frac{1}{2}x+21$

D. $\frac{1}{2}x+42$

E. $\frac{1}{2}x+45$

31) Solve for x: $2 + \frac{3x}{x-5} = \frac{3}{5-x}$?

A. $\frac{4}{5}$

B. $\frac{6}{5}$

C. $\frac{7}{5}$

D. $\frac{8}{5}$

E. $\frac{9}{5}$

32) Which of the following expressions is equivalent to $2x(5 + 3y + 2x + 4z)$?

A. $7x + 5xy + 4x + 6xz$

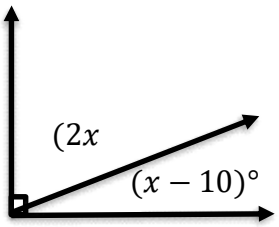
B. $5x + 3xy + 4x^2 + 4xz$

C. $6xy + 4x^2 + 8xz + 10$

D. $10x + 6xy + 4x^2 + 8xz$

E. $14x + 6xy + 8xz$

33) Find the value of x in the following diagram?



A. 25

B. 33

C. 35

D. 47

E. 55

34) If $x\begin{bmatrix} 2 & 0 \\ 0 & 4 \end{bmatrix} = \begin{bmatrix} x + 3y - 5 & 0 \\ 0 & 2y + 10 \end{bmatrix}$, what is the product of x and y?

A. 1

B. 2

C. 10

D. 11

E. 12

35) If $f(x) = 3^x$ and $g(x) = log_3 x$, which of the following expressions is equal to $f(3g(p))$?

A. $3P$

B. 3^p

C. p^3

D. p^9

E. $\frac{p}{3}$

36) The following table represents the value of x and function $f(x)$. Which of the following could be the equation of the function $f(x)$?

x	$f(x)$
1	5
4	6
9	7
16	8

A. $f(x) = x^2 - 5$

B. $f(x) = x^2 - 1$

C. $f(x) = \sqrt{x+2}$

D. $f(x) = \sqrt{x} + 4$

E. $f(x) = \sqrt{x} + 6$

37) What is the highest-degree term in the expansions of $\frac{(2x-2)^3 - 2x(x^3+3x)}{2}$?

A. $4x^3$

B. $-2x^4$

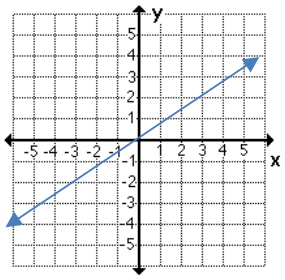
C. $-x^4$

D. $\frac{-x^4}{2}$

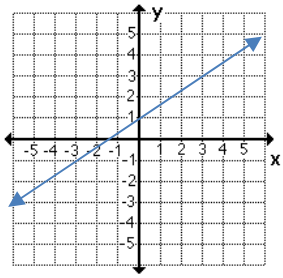
E. $\frac{4x^3}{2}$

38) Which graph shows a non-proportional linear relationship between x and y?

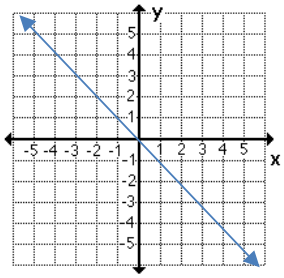
A.



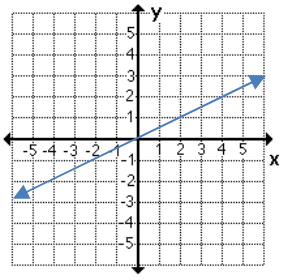
B.



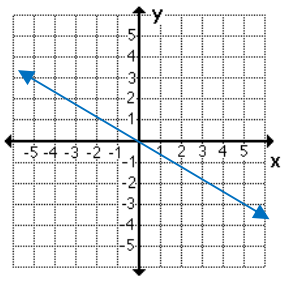
C.



D.



E.



39) A ladder leans against a wall forming a 60° angle between the ground and the ladder. If the bottom of the ladder is 30 feet away from the wall, how long is the ladder?

A. $30\ feet$

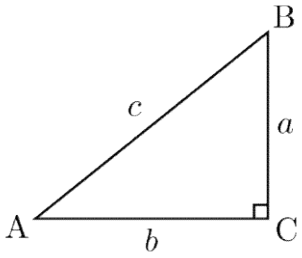
B. $40\ feet$

C. $50\ fe$

D. $60\ feet$

E. $120\ fee$

40) Right triangle ABC is shown below. Which of the following is true for all possible values of angle A and B?



A. $tan\ A = tan\ B$

B. $sin\ A = cos\ B$

C. $tan^2 A = tan^2 B$

D. $tan\ A = 1$

E. $\cot A = sinB$

41) Which of the following is a factor of $12x^8 - 21x^4 + 3x^2$?

A. $3x^2$

B. $x - 1$

C. $3x + 1$

D. $4x^5 - 7x^2$

E. $4x^5 - 7x + 1$

42) If $4x + y = 25$ and $x - 2z = 24$, what is the value of x?

A. 0

B.

C. 5

D. 10

E. It cannot be determined from the information given

43) Given the equation $4x - 2y = 18$,find the missing value in the ordered pair $(__, -3)$

A. -2

B. 2

C. 3

D. 6

E. -15