NeSA

Mathematics

Nebraska State Accountability

Grade 11

Mathematics

Practice Test

Name:

Directions:

On the following pages are multiple-choice questions for the Grade 11 Practice Test, a practice opportunity for the *Nebraska State Accountability–Mathematics (NeSA–M).*
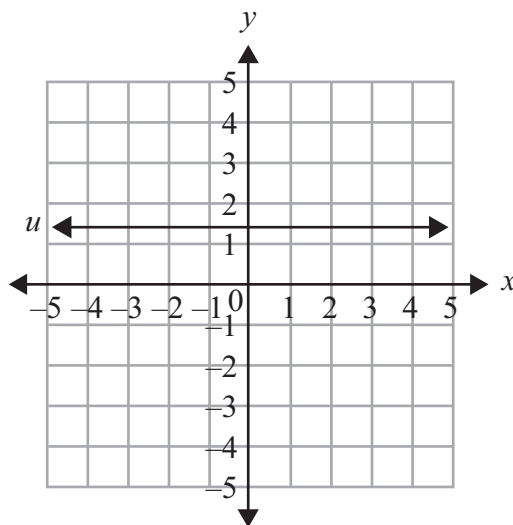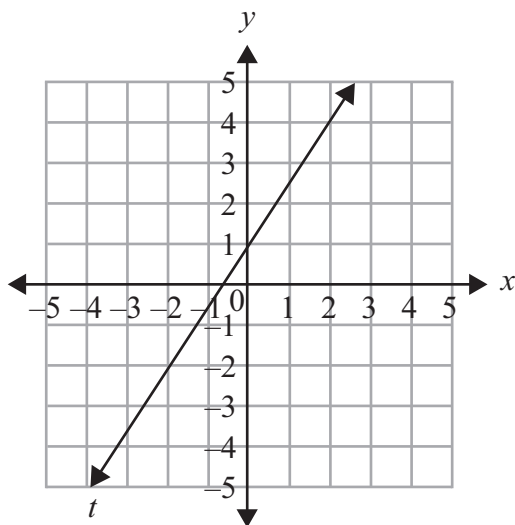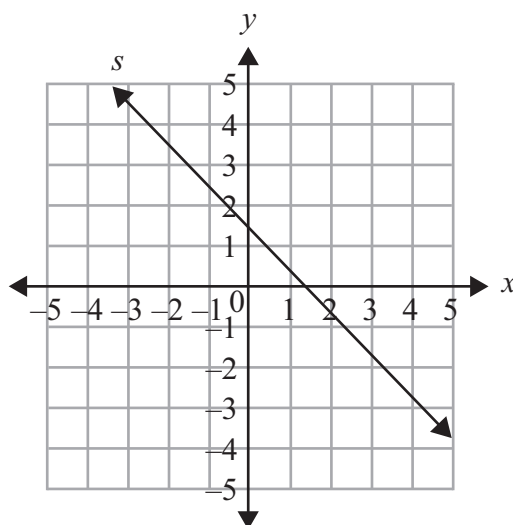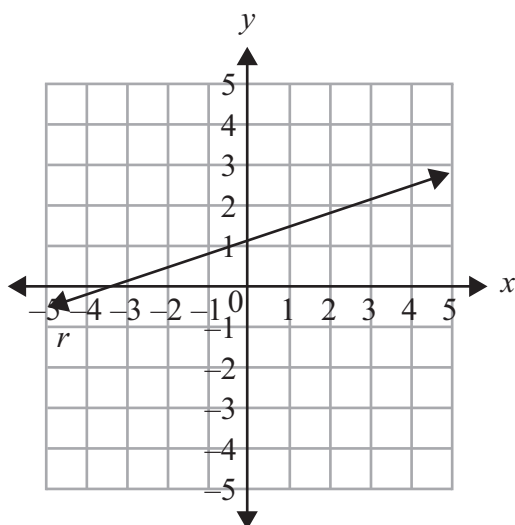
Each question will ask you to select an answer from among four choices.

For all questions:

- Read each question carefully and choose the best answer.
- You may use scratch paper to solve the problems.
- The Mathematics Reference Sheet is provided in the back of the test booklet. You may refer to this page any time during the test.
- You may not use a calculator on this test.
- Be sure to answer ALL the questions.

Remember only one of the answers provided is the correct response.

4. **Use the graphs below to answer the question.**

Which line shows a negative slope?

A. *r*

B. *s*

C. *t*

D. *u*

13. What is the value of the expression $\dfrac{3+\dfrac{1}{4}}{3}$?

    A. $\dfrac{1}{4}$

    B. $\dfrac{13}{12}$

    C. $\dfrac{5}{4}$

    D. $\dfrac{13}{3}$

14. Using positive exponents, what is the simplest form of the expression $\left(\dfrac{x^4}{3y^2}\right)^3$?

    A. $\dfrac{x^7}{3y^2}$

    B. $\dfrac{x^7}{27y^5}$

    C. $\dfrac{x^{12}}{9y^6}$

    D. $\dfrac{x^{12}}{27y^6}$