NAME:

**Unit 6: Absolute Value and Reciprocal Functions**



This assignment includes multiple choice and short answer questions. For multiple choice questions, select the best answer. Each is worth 1 mark. Marks assigned to short answer questions are indicated for each question. Be sure to show all necessary work.

**/1**\_\_\_\_1. The absolute values of  and  are respectively

A. 4 and 5

B. 4 and –5

C. –4 and 5

D. –4 and –5

Answer:

**/1**\_\_\_\_2. If , then

A. 

B. 

C. 

D. 

Answer:

**/1\_\_\_** 3. The set ordered from least to greatest is

A. 

B. 

C. 

D. 

Answer:

**/1\_\_\_** 4. An **incorrect** definition of absolute value is

A. 

B. 

C. 

D. 

Answer:

**/1\_\_\_** 5. If the graph of  is the same as , then

A.  may be of the form  or of the form 

B.  may be of the form  but cannot be of the form 

C.  may be of the form  but cannot be of the form 

D.  cannot be of the form  or 

Answer:

**/1\_\_\_** 6. The equation has real solutions

A. only when 

B. only when 

C. for any *p*-value

D. for no values of *p*

Answer:

**/1\_\_\_** 7. If *r* and *s* are numbers on a number line, the **best** representation of how much farther one

value is from zero than the other value is

A. 

B. 

C. 

D. 

Answer:

*Use the following information to answer question 8.*A partial solution to the equation is shown.

|  |  |
| --- | --- |
| **Line 1** |  |
| **Line 2** |  |
| **Line 3** |  |
| **Line 4** | for |

**/1\_\_\_** 8. The first error is recorded in line

A. 1

B. 2

C. 3

D. 4

Answer:

**/1\_\_\_** 9. If the range of  is , then the range of  **may** be

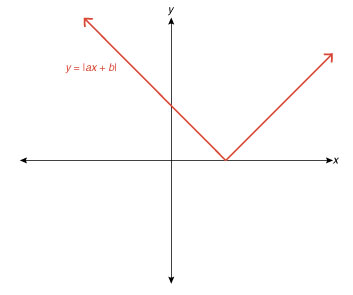
A. 

B. 

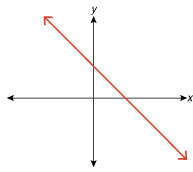
C. 

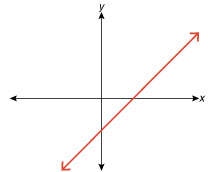
D. 

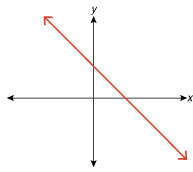
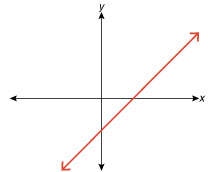
Answer:

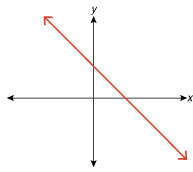
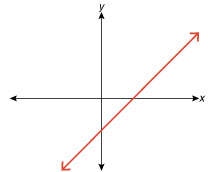
*Use the following information to answer question 10.*

**/1\_\_\_** 10. The graph of  may be

A. only 

B. only

C. either  or 

D. neither  nor 

Answer:

**/3** 11. Solve .

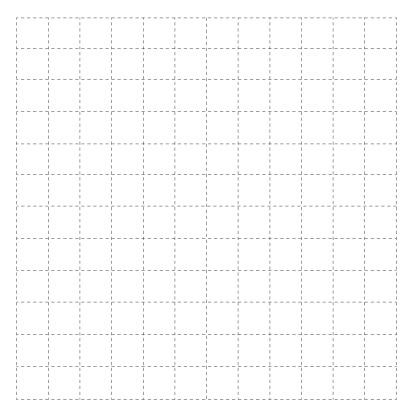
Answer:

**/1** 12. Will  and  always have the same value? Explain.

.

Answer:

**/2** 13. Use the graph of  to sketch the graph of . Be sure to explain all steps.

  
 Answer:

**/16**