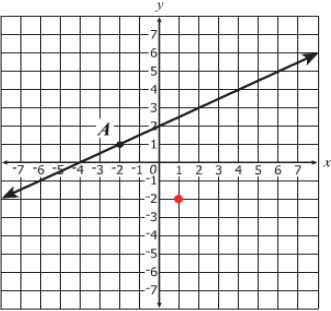


**Algebra II**  
**Released Test Item Set Spring 2015**  
**Answer Key**

Sequence Number	Item Type: Multiple Choice (MC) or Technology-Enhanced Item (TEI)	Correct Answer	Reporting Category	Reporting Category Description
1	MC	C	001	Expressions and Operations
2	MC	A	001	Expressions and Operations
3	MC	A	001	Expressions and Operations
4	MC	A	001	Expressions and Operations
5	MC	D	001	Expressions and Operations
6	MC	B	001	Expressions and Operations
7	MC	C	001	Expressions and Operations
8	MC	C	001	Expressions and Operations
9	MC	A	001	Expressions and Operations
10	MC	B	001	Expressions and Operations
11	MC	A	002	Equations and Inequalities
12	MC	B	002	Equations and Inequalities
13	MC	B	002	Equations and Inequalities
14	MC	D	002	Equations and Inequalities
15	MC	C	002	Equations and Inequalities
16	MC	D	002	Equations and Inequalities

Sequence Number	Item Type: Multiple Choice (MC) or Technology-Enhanced Item (TEI)	Correct Answer	Reporting Category	Reporting Category Description
17	TEI	Typed response: 16 (and all equivalent answers) <div style="border: 1px solid gray; padding: 10px; margin-top: 10px;"> <p style="background-color: #e0e0e0; margin: 0; padding: 5px;">Directions: Type your answer in the box.</p> <p style="margin: 10px 0 0 40px;">What value of <math>x</math> makes <math>\sqrt[3]{2x - 5} = 3</math> true?</p> <p style="margin: 10px 0 0 100px;"><math>x = </math> <input style="border: 1px solid gray; width: 40px; text-align: center;" type="text" value="16"/></p> </div>	002	Equations and Inequalities
18	MC	C	002	Equations and Inequalities
19	MC	A	002	Equations and Inequalities
20	MC	D	002	Equations and Inequalities

Sequence Number	Item Type: Multiple Choice (MC) or Technology-Enhanced Item (TEI)	Correct Answer	Reporting Category	Reporting Category Description						
21	TEI	<p><math>(-4,0)</math> (first row, left column) and <math>(-1,0)</math> (last row, left column) Both of these answers, and only these answers, must be selected.</p> <div style="border: 1px solid gray; padding: 10px;"> <p><b>Directions: Click on all the correct answers.</b></p> <p>Identify all the points where the graph of <math>h(x) = (x + 1)(x^2 + 8x + 16)</math> intersects the <math>x</math>-axis.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr> <td style="border: 2px solid orange;"><math>(-4,0)</math></td> <td><math>(1, 0)</math></td> </tr> <tr> <td><math>(-2,0)</math></td> <td><math>(4, 0)</math></td> </tr> <tr> <td style="border: 2px solid orange;"><math>(-1,0)</math></td> <td><math>(16, 0)</math></td> </tr> </tbody> </table> </div>	$(-4,0)$	$(1, 0)$	$(-2,0)$	$(4, 0)$	$(-1,0)$	$(16, 0)$	003	Functions and Statistics
$(-4,0)$	$(1, 0)$									
$(-2,0)$	$(4, 0)$									
$(-1,0)$	$(16, 0)$									
22	MC	B	003	Functions and Statistics						
23	MC	D	003	Functions and Statistics						
24	MC	D	003	Functions and Statistics						

Sequence Number	Item Type: Multiple Choice (MC) or Technology-Enhanced Item (TEI)	Correct Answer	Reporting Category	Reporting Category Description
25	TEI	<p>A point must be plotted on the coordinate plane at (1,-2). This point is the only correct answer.</p> <p><b>Directions: Click on the grid to plot the correct point.</b></p> <p>Point <math>A</math> lies on the graph of <math>f(x) = \frac{1}{2}x + 2</math>. Locate the image of Point <math>A</math> that lies on the graph of <math>f^{-1}(x)</math>.</p> 	003	Functions and Statistics
26	MC	A	003	Functions and Statistics
27	MC	C	003	Functions and Statistics
28	MC	D	003	Functions and Statistics
29	MC	D	003	Functions and Statistics
30	MC	C	003	Functions and Statistics
31	MC	C	003	Functions and Statistics
32	MC	C	003	Functions and Statistics

Sequence Number	Item Type: Multiple Choice (MC) or Technology-Enhanced Item (TEI)	Correct Answer	Reporting Category	Reporting Category Description
33	MC	C	003	Functions and Statistics
34	MC	A	003	Functions and Statistics
35	MC	C	003	Functions and Statistics
36	MC	D	003	Functions and Statistics
37	MC	C	003	Functions and Statistics
38	TEI	<p>Typed response: 336</p> <div style="border: 1px solid black; padding: 10px;"> <p><b>Directions: Type your answer in the box.</b></p> <p>What is the number of possible permutations of 8 objects taken 3 at a time?</p> <div style="text-align: center; margin-top: 20px;"> <input style="width: 40px; height: 20px; border: 1px solid gray;" type="text" value="336"/> </div> </div>	003	Functions and Statistics

