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Standards Solution Holding

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Name _____ Date _____

Tic-tac-toe – Algebra I

Answer any three questions to form tic-tac-toe.

Show all work. Be sure to include the problem number on your paper. “X” out the problems that you are solving to form tic-tac-toe.

<p>1. Which equations have no real solutions? Select all correct answers.</p> <p>A. $2(x - 3)^2 = 0$</p> <p>B. $2(x + 3)^2 + 4 = 1$</p> <p>C. $(x - 1)^2 + 4 = 8$</p> <p>D. $(x + 1)^2 + 4 = 2$</p> <p>E. $x^2 + 8x = -15$</p>	<p>2.</p>	<p>3. Enter your answers in the boxes to show the complete factorization of the expression</p> <p style="text-align: center;">$-5x^3 + 30x^2 + 35x$</p> <p>Enter your answers in the boxes.</p> <p style="text-align: center;">$-5x^3 + 30x^2 + 35x$</p> <p style="text-align: center;">$-5x(x^2 + \boxed{}x + \boxed{})$</p> <p style="text-align: center;">$-5x(x + \boxed{})(x + 1)$</p>
<p>4. The area, A, of a rectangular parking lot is given by the equation $A = 16s^2 + 25$. Jacob knows the area of the parking lot and wants to find s.</p> <p>Solve $A = 16s^2 + 25$ for s.</p> <p>Enter your answer in the space provided. Enter only your answer. <input style="width: 80px; height: 20px;" type="text"/></p>	<p>5. Multiply the polynomials $(x + 3)(2x - 4)$. What is the product in the form $ax^2 + bx + c$?</p> <p>Enter your answers in the boxes.</p> <p>$a = \boxed{}$</p> <p>$b = \boxed{}$</p> <p>$c = \boxed{}$</p>	<p>6.</p>
<p>7.</p>	<p>8.</p>	<p>9.</p>

Name _____ Date _____

Tic-tac-toe – Algebra I

Answer any three questions to form tic-tac-toe.

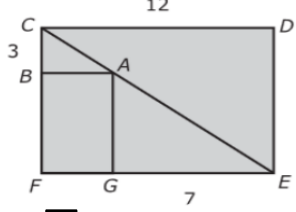
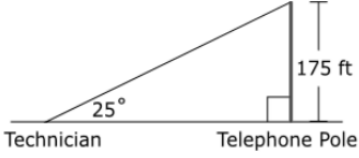
Show all work. Be sure to include the problem number on your paper. “X” out the problems that you are solving to form tic-tac-toe.

1.	2.	3.
4.	5.	6.
7.	8.	9.

Name _____ Date _____

Tic-tac-toe – Geometry

Answer any three questions to form tic-tac-toe. Show all work. Be sure to include the problem number on your paper. "X" out the problems that you are solving to form tic-tac-toe.

<p>1. The equation $x^2 - 10x + 17 = -y^2 - 2y$ describes a circle in the coordinate plane. Find the radius of the circle and the coordinates of its center.</p> <p>Enter your answers in the spaces provided. Enter only your answers.</p> <p>radius = <input style="width: 50px;" type="text"/> units</p> <p>center: (<input style="width: 30px;" type="text"/> , <input style="width: 30px;" type="text"/>)</p>	<p>2.</p>	<p>3. In the diagram, quadrilaterals FBAG and CDEF are rectangles.</p>  <p>How long is \overline{DE} rounded to the nearest tenth? Enter your answer in the box.</p> <div style="text-align: center;"><input style="width: 60px; height: 20px;" type="text"/></div>
<p>4.</p>	<p>5.</p>	<p>6.</p>
<p>7.</p>	<p>8.</p>	<p>9. A technician sights the top of a telephone pole at a 25° angle of elevation as shown.</p>  <p>Determine the horizontal distance between the technician and the base of the telephone to the nearest tenth of a foot. Enter your answer in the box.</p> <div style="text-align: right;"><input style="width: 60px; height: 20px;" type="text"/> feet</div>

Name _____ Date _____

Tic-tac-toe Geometry

Answer any three questions to form tic-tac-toe.

Show all work. Be sure to include the problem number on your paper. "X" out the problems that you are solving to form tic-tac-toe.

1.	2.	3.
4.	5.	6.
7.	8.	9.

Name _____ Date _____

Tic-tac-toe – Algebra II

Answer any three questions to form tic-tac-toe.

Show all work. Be sure to include the problem number on your paper. "X" out the problems that you are solving to form tic-tac-toe.

<p>1. Which equations are true for all values of x? Select all that apply.</p> <p>A. $3^{2-x} = 3^2 - 3^x$</p> <p>B. $3^{x+2} = 9(3^x)$</p> <p>C. $(3^x)^2 = (3^2)^x$</p> <p>D. $9^{x+2} = 3^{2x+4}$</p> <p>E. $27^x = (3^x)^3$</p>	<p>2.</p>	<p>3.</p> <p>For what value of m is the equation true?</p> $x^2 + 10x + 11 = m + (x+5)^2 - 25$ <p>Enter your answer in the box.</p> <input data-bbox="1198 779 1409 852" type="text"/>
<p>4.</p>	<p>5.</p>	<p>6.</p>
<p>7.</p>	<p>8.</p> <p>In the equation $(5^{1/3})(5^{2/3})^4 = 5^x$, What is the value of x?</p> <p>Enter your answer in the box.</p> <input data-bbox="781 1654 889 1696" type="text"/>	<p>9.</p>

Name _____ Date _____

Tic-tac-toe – Algebra II

Answer any three questions to form tic-tac-toe.

Show all work. Be sure to include the problem number on your paper. “X” out the problems that you are solving to form tic-tac-toe.

1.	2.	3.
4.	5.	6.
7.	8.	9.