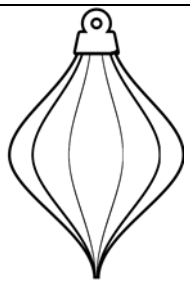
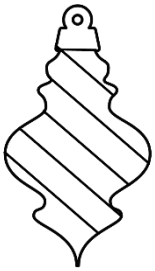
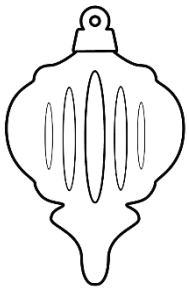
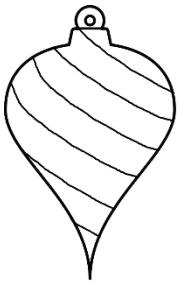
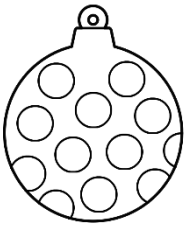
Systems of Equations

Christmas Tree Activity

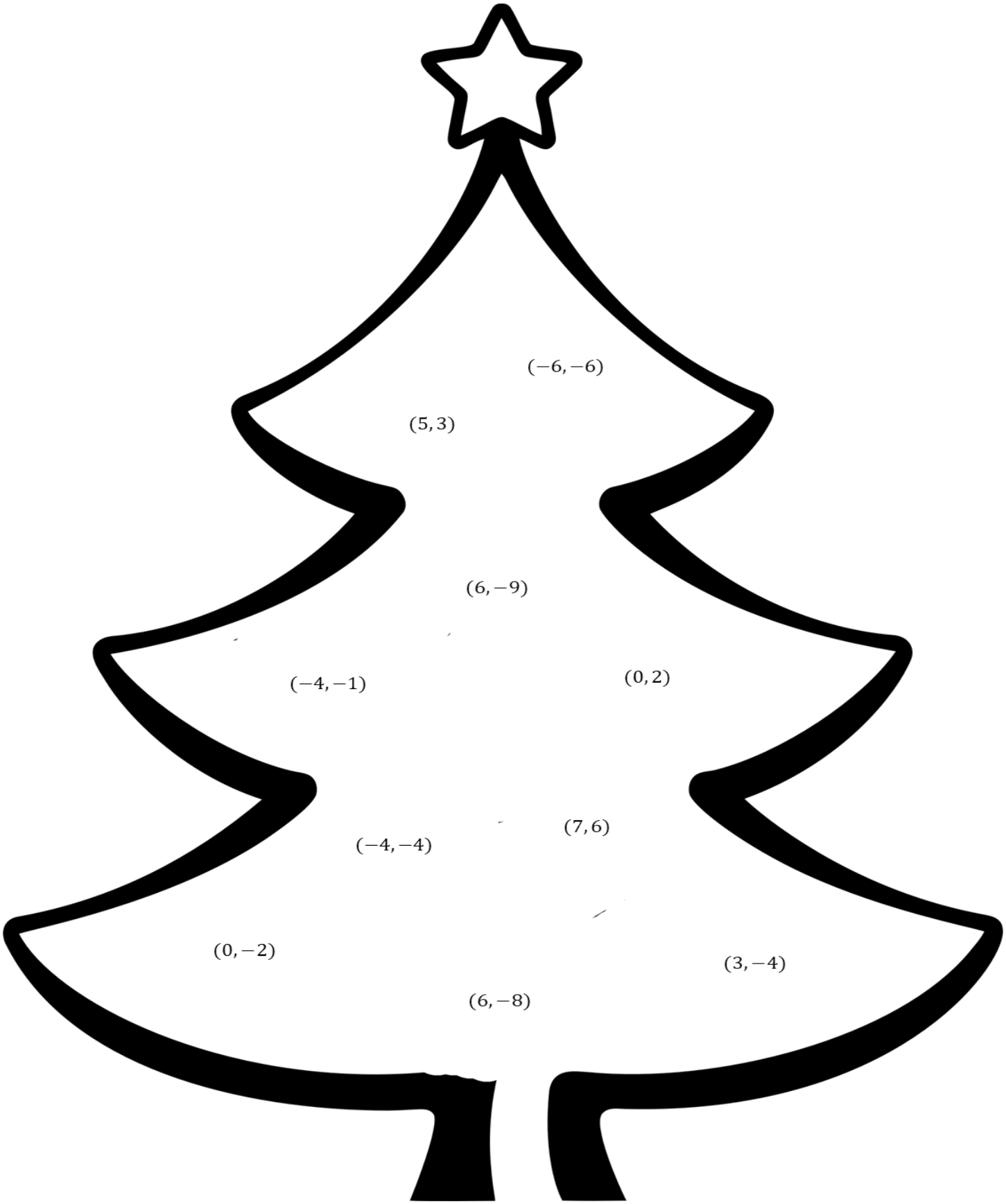
Name_____Date_____

Systems of Equations Christmas Tree Activity

Directions: Solve each system of inequalities below using any method of your choice. Then, find the solution on the Christmas tree. Cut and paste the appropriate ornament over the solution. Color your ornaments and tree when you are done! Show your work on a separate sheet of paper.

System of Equations	Ornament	System of Equations	Ornament
1. $y = \frac{1}{3}x - 4$ $y = -6$ Solution: _____		2. $y = -4x + 15$ $y = -\frac{7}{2}x + 12$ Solution: _____	
3. $2x + y = 20$ $6x - 5y = 12$ Solution: _____		4. $-3x - 8y = 20$ $-5x + y = 19$ Solution: _____	
5. $y = \frac{1}{3}x - 5$ $2x + y = 2$ Solution: _____		6. $-3x + 7y = -16$ $-9x + 5y = 16$ Solution: _____	
7. $2x + 3y = -12$ $-x - 3y = 18$ Solution: _____		8. $y = \frac{3}{5}x$ $y = -\frac{2}{5}x + 5$ Solution: _____	
9. $3x + 2y = 4$ $8x - 3y = -6$ Solution: _____		10. $y = -\frac{1}{7}x - 2$ $y = -\frac{2}{7}x - 2$ Solution: _____	

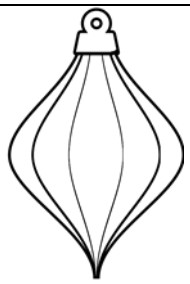
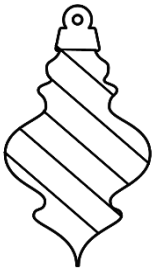
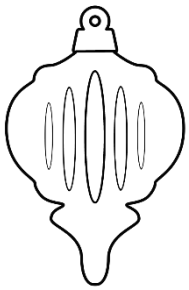
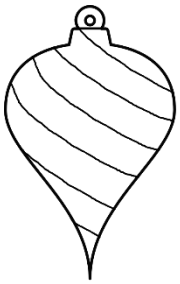
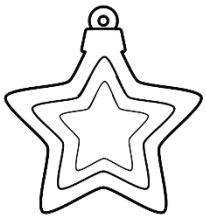
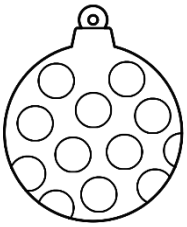
Name_____Date_____



Name_____Date_____

Systems of Equations Christmas Tree Activity—Answer Key

Directions: Solve each system of inequalities below using any method of your choice. Then, find the solution on the Christmas tree. Cut and paste the appropriate ornament over the solution. Color your ornaments and tree when you are done! Show your work on a separate sheet of paper.

System of Equations	Ornament	System of Equations	Ornament
1. $y = \frac{1}{3}x - 4$ $y = -6$ Solution: $(-6, -6)$		2. $y = -4x + 15$ $y = -\frac{7}{2}x + 12$ Solution: $(6, -9)$	
3. $2x + y = 20$ $6x - 5y = 12$ Solution: $(7, 6)$		4. $-3x - 8y = 20$ $-5x + y = 19$ Solution: $(-4, -1)$	
5. $y = \frac{1}{3}x - 5$ $2x + y = 2$ Solution: $(3, -4)$		6. $-3x + 7y = -16$ $-9x + 5y = 16$ Solution: $(-4, -4)$	
7. $2x + 3y = -12$ $-x - 3y = 18$ Solution: $(6, -8)$		8. $y = \frac{3}{5}x$ $y = -\frac{2}{5}x + 5$ Solution: $(5, 3)$	
9. $3x + 2y = 4$ $8x - 3y = -6$ Solution: $(0,2)$		10. $y = -\frac{1}{7}x - 2$ $y = -\frac{2}{7}x - 2$ Solution: $(0, -2)$	

Name_____Date_____

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