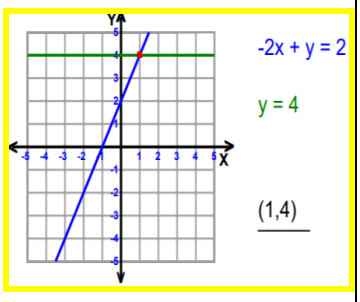
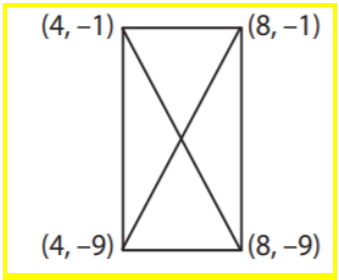
Answer Key - Math 1 Weekly spiral Review Week - 7

Monday	Tuesday	Wednesday	Thursday
Solve the system by substitution. **y = 6x - 11** **-2x - 3y = -7** **(2, 1)**	Solve the system by elimination. **5x + y = 9** **10x - 7y = -18** **(1, 4)**	Find the distance between the pair of points: (2, -8) and (5, -6) **3.61** (1, 8) and (-6 , -1) **11.40**	Write an equation of the line that passes through the following points: (1, 5) and (2, 7) **y = 2x + 3** (0, 1) and (3, -8) **y= -3x + 1**
Jerry, an electrician, worked 7 months out of the year. What percent of the year did he work? **(12 months = 1 year)** **≈ 58%**	Find the dilated coordinates given a scale factor of 8. Q(-1,1), R(-3, -1), S(1, -2) and T(4, 2) **Q'(-8, 8), R'(-24, -8), S'(8, -16) and T' (32, 16)**	Find the GCF for each pair of monomials: **$56a^2bc$ and $24a^2b^2$** **$8a^2b$** **$72x^8y^9z^2$ and $36x^4y^2z$** **$36x^4y^2z$**	The money used in Kuwait is called the Dinar. The exchange rate is $14 for every 4 Dinars. How many dollars would you receive is you exchanged 48 Dinars. **x = $168**
Solve the system by substitution. **2x - 3y = -1** **y = x - 1** **(4, 3)**	Find the products: $(x - 4)^2$ **$x^2 - 8x + 16$** $(x - 3)(x + 3)$ **$x^2 - 9$** $(8a^2+ 4)(8a^2- 4)$ **$64a^4 - 16$**	Simplify the expressions. $(13n^2 + 11n - 2n^4) + (-13n^2 - 3n - 6n^4)$ **$-8n^4 + 8n$** $(8n - 3n^4 + 10n^2) - (3n^2 + 11n^4 - 7)$ **$-14n^4 + 7n^2 + 8n + 7$** $(9r^3 + 5r^2 + 11r) + (-2r^3 + 9r - 8r^2)$ **$7r^3 - 3r^2 + 20r$**	
In a cookie mix, we find snickerdoodle cookies, pinwheel cookies, and butter cookies in a ratio of 4:1:5. If a bag of the mix contains 65 butter cookies, how many snickerdoodle cookies are there? **52**	A climber is on a hike. After 2 hours, he is at an altitude of 400 feet. After 6 hours, he is at an altitude of 700 feet. What is the average rate of change? What is the climbers altitude after 8 hours? **m = 75; 850 feet.**	You and a friend go to Taco Bell for lunch. You order three soft tacos and three burritos and your bill totals $11.25. Your friend's bill is $10 for four soft tacos and two burritos. How much do soft tacos cost? How much do burritos cost? **Tacos $1.25 and Burritos $2.50**	Richie spent $120 on 12 rose bushes and 2 gardenia bushes, while Jim spent $150 on 10 rose bushes and 10 gardenia bushes. What is the cost of 1 rose bush and 1 gardenia bush? **rose bush = $9** **gardenia bush = $6**
Find the point of intersection of diagonals of the parallelogram whose vertices are (-3, 2), (-4, 4), (1 ,4) and (2, 2). **(-1, 3)**	Solve using substitution or elimination: 5x + 4y = -1 -7x - 2y = -13 **(3, -4)**	Find the GCF for each pair of monomials: q^5rs^9 and $q^7r^2s^8$ **q^5rs^8** $84g^8h^7$ and $36g^6h^9$ **$12g^6h^7$**	Solve the system by elimination. **-4x - 2y = -12** **4x + 8y = -24** **(6, -6)**
Find the equation of the line that is perpendicular to the line y=2x + 6 and contains the point (2, 6). **$y = -\frac{1}{2}x + 7$**	What percent of 84 is 126? **150%** What percent of 87 is 87? **100%** 7% of 29 is what? **2.0**	If the ratio of chocolates to ice-cream cones in a box is 5:8 and the number of chocolates is 30, find the number of ice-cream cones. **48 ice-cream cones**	Find the other endpoint of the line segment with the given endpoint and midpoint. **(4, 2)** Endpoint: (6, -4) Midpoint: (5, -1)
Solve by graphing.  **-2x + y = 2** **y = 4**	Find the point of intersection of the diagonals. **(6, -5)** 	A clothing store is donating socks to various charities. The store gave 4 regular packs and 6 value packs to a homeless shelter, which contained a total of 248 pairs of socks. For foster children, the store donated 6 regular packs and 5 value packs which equaled 284 pairs. How many pairs of socks are in each pack? **Regular - 29** **Value - 22**	The admission fee at a small fair is $1.50 for children and $4.00 for adults. On a certain day, 2,200 people enter the fair and $5,050 is collected. How many children and adults attended the fair? **Solve using substitution or elimination system of equations.** **1500 children and 700 adults**