Algebra 2 Bellwork Tuesday, October 20, 2015

- 1. Together you and I have \$227. You have one less than twice as much as I do. Write and solve a system of equations to find out how much money each of us has.
- System of equations:

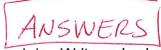
\$ I have:

\$ you have:

- 2. Solve each quadratic equation by factoring.
- ·Factor each completely.
- ·Find the zeros of each factor.
- a) $6Q^2 + Q 12 = 0$

b) $6m^3 - 48m^2 - 288m = 0$

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1. Together you and I have \$227. You have one less than twice as much as I do. Write and solve a system of equations to find out how much money each of us has.

System of equations:

$$x + y = 227$$

 $y = 2x - 1$

X = # I have

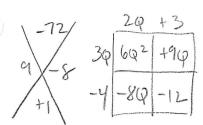
$$x + 2x - 1 = 227$$

 $3x - 1 = 227$

- \$ I have:

- 2. Solve each quadratic equation by factoring.
- •Factor each completely.
- ·Find the zeros of each factor.

$$6Q^2 + Q - 12 = 0$$



$$(29+3)(39-4)=0$$
 $(9=-3/2, 4/3)$

b)
$$6m^3 - 48m^2 - 288m = 0$$

 $6m(m^2 - 8m - 48) = 0$



$$lom (m-12)(m+4) = 0$$

 $lom = 0,12,-4$