Round-up Quiz 2

1. What are the values of x for which $x^2 - 3x - 18 =$	3 = 0?
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- (a) x = -6;
- (b) x = -3;
- (c) x = -3 or x = 6;
- (d) x = 3 or x = 6;
- (e) x 2 or x = 6.
- 2. The inequality 2x > x + 10 > -x means the same thing as which two inequalities?
 - (a) 2x > x + 10 or x + 10 > -x;
 - (b) 2x > x + 10 and x + 10 > -x.
- 3. Solving the correct choice in Question 2 gives which solutions to the inequality 2x > x + 10 > -x?
 - (a) x > 10 or x < -5;
 - (b) x > 10 or x > -5;
 - (c) x > 10 and x < -5;
 - (d) x > 10 and x > -5.
- 4. If 2x + y = -8 and -4x + 2y = 16, then what is the value of y?
 - (a) y = -4;
 - (b) y = -2;
 - (c) y = 0;
 - (d) y = 2;

- (e) y = 4.
- 5. Myself and a friend are playing a high-low game with a deck of playing cards. I cut the deck and pick a Jack of Hearts then I replace the card. What is the probability that my friend choses a card higher than mine (we play the game with an ace higher than a king)?