Speed Dating

**Directions**: Complete the problem with your “date”. You will have two minutes per problem. When the bell dings, move one places to your right.

1. 2x2 + 6x + 10 = 4 – 2x
   1. x = -3,-1
2. 3n2 + 12n – 16 = 3n + 14
   1. n = -5, 2
3. 6x2 – 13x – 5 = 13x + 15
   1. x = -2/3, 5
4. 2x2 + 18x – 40 = 6x + 40
   1. x = -10, 4
5. 5t2 - 10 = -5t
   1. x = -2, 1
6. 14x2 + 7x – 21 = 0
   1. x = -3/2, 1
7. 4x2 + 16x + 16 = 0
   1. x = -2
8. 24a2 + 9 = 30a
   1. a = 1/2, 3/4
9. 10 – 15x = 10x2
   1. x =
10. 3x2 - 42x + 147 = 0
    1. x = -2, 1/2
11. 3x3 + 21x2 + 36x = 0
    1. x = 7
12. 5r2 − 44r + 120 = −30 + 11r
    1. r = 5, 6
13. 3r2 − 16r − 7 = 5
    1. r = -2/3, 6
14. −4k2 − 8k − 3 = −3 − 5k2
    1. k = 0, 8
15. n2 + 8n = −15
    1. n = -5, -3
16. x2 − 11x + 24 = 0
    1. x = 3, 8
17. n2 + 7n + 10 = 0
    1. n = -5, -2
18. n2 − 10n + 24 = 0
    1. n = 4, 6