



SM 2

Name: _____ Period: _____

SM2 6.3 The Quadratic Formula

Solve each equation using the quadratic formula.

1. $x^2 + x - 12 = 0$

a = _____, **b** = _____, **c** = _____

2. $4n^2 - 2n + 7 = 0$

a = _____, **b** = _____, **c** = _____

3. $6w^2 - 4w - 1 = 0$

a = _____, **b** = _____, **c** = _____

4. $5p^2 - 4p + 4 = 0$

a = _____, **b** = _____, **c** = _____

5. $3m^2 + 2m - 40 = 0$

a = _____, **b** = _____, **c** = _____

6. $8u^2 - 7 = 0$

a = _____, **b** = _____, **c** = _____

7. $3z^2 - 5z = 8$

a = _____, **b** = _____, **c** = _____

8. $2q^2 = 5q - 4$

a = _____, **b** = _____, **c** = _____

9. $9t^2 - 7t = 0$

a = _____, **b** = _____, **c** = _____

10. $2v^2 = -8v + 9$

a = _____, **b** = _____, **c** = _____

11. $k^2 - 14 = -3 + 2k$

a = _____, **b** = _____, **c** = _____

12. $10y^2 - 5y = 6y^2 + 44$

a = _____, **b** = _____, **c** = _____