

Name: _____ Hour: _____

Solve each equation by factoring.

1. $5x^2 + 15 = -20x$

2. $0 = -336 - 90m - 6m^2$

3. $-32 = -5p^2 + 36p$

4. $3m^2 = 11m - 10$

Solve each equation by taking square roots. Leave answers in radical form, NO DECIMALS!!

5. $5x^2 = 5$

6. $n^2 + 3 = -20$

7. $3n^2 + 8 = 251$

8. $8b^2 + 2 = 762$

9. $(x - 4)^2 = 25$

10. $5(x + 7)^2 = 5$

11. $3(x - 2)^2 = 36$

12. $\left(x - \frac{1}{2}\right)^2 = 1$

13. $\left(x - \frac{3}{2}\right)^2 = \frac{7}{4}$

14. $\left(x + \frac{5}{2}\right)^2 = \frac{15}{4}$