

Name - _____

Start time - __ : __

End time - __ : __

Factorize the following expressions by quadratic equations.

1. $x - \frac{3}{x} = 2$

11. $15x^2 + 1 = 8x$

2. $2x^2 + x - 6 = 0$

12. $3y^2 + 15x + 18 = 0$

3. $100x^2 - 20x + 1 = 0$

13. $x^2 - 2x - 15 = 0$

4. $x(x + 4) = 12$

14. $4x^2 - 25 = 0$

5. $3x^2 - 5x + 2 = 0$

15. $3x^2 - 6x = 0$

6. $y^2 - 6y + 5 = 0$

16. $x^2 - 3x - 10 = 0$

7. $3x^2 + x = 10$

17. $x^2 - 11x = -30$

8. $2x^2 - x + \frac{1}{8} = 0$

18. $x^2 + 5x + 6 = 20$

9. $\sqrt{2x^2} + 7x + 5\sqrt{2} = 0$

10. $3(x - 4)^2 - 5(x - 4) = 12$