

Name _____ Hour _____

Factor Review Worksheet

Simplify

1. $(a - 7)(a + 5)$

2. $3(b + 2)$

3. $(c - 5)(c + 5)$

4. $-9(7d - 6)$

5. $(4e + 2)(6e^2 - e + 2)$

6. $(f^2 + 6f - 4)(2f - 4)$

7. $(g^2 - 7g - 6)(7g^2 - 3g - 7)$

8. $(6h^2 - 6h - 5)(7h^2 + 6h - 5)$

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Factor

9. $j^2 + 10j + 9$

10. $8k^2 + 10k$

11. $L^2 - 12L + 20$

12. $m^2 - 2m - 12$

13. $6n^2 - 30n + 42$

14. $p^3 + p^2 - p$

Solve using zero-product rule.

15. $(q + 8)(q - 2) = 0$

16. $(r - 11)(r - 1) = 0$

17. $(2s + 6)(s - 3) = 0$

18. $(3t - 5)(2t + 7) = 0$

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Solve by factoring

19. $u^2 - 12u + 36 = 0$

20. $v^2 - v = 12$

21. $2w^2 - 28w = -98$

22. $4x^2 - 12x + 8 = 0$

23. $3y^2 + 12y = 45$

24. $z^2 - 3z + 2 = 0$