Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Factoring Worksheet

Factor each of the following. Remember to factor out a GCF first if there is one.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 1. | x2 - 14x + 45 | | |  |  | | --- | --- | | 2. | x3 – 81x | |
| |  |  | | --- | --- | | 3. | x2 - 18x + 80 | | |  |  | | --- | --- | | 4. | x2 - 49 | |
| |  |  | | --- | --- | | 5. | x2 - 6x + 9 | | |  |  | | --- | --- | | 6. | 6x2 + 6x | |
| |  |  | | --- | --- | | 7. | 2x2 + 40x + 198 | | |  |  | | --- | --- | | 8. | 2x2 + 3x - 9 | |
| |  |  | | --- | --- | | 9. | x2 - 3x – 88 | | |  |  | | --- | --- | | 10. | x2 - 16x + 48 | |
| |  |  | | --- | --- | | 11. | 3x2 – 11x + 6 | | |  |  | | --- | --- | | 12. | x2 - 14x + 33 | |
| |  |  | | --- | --- | | 13. | 10x2 + 10x – 300 | | |  |  | | --- | --- | | 14. | 6x2 – 4x - 10 | |
| |  |  | | --- | --- | | 15. | x2 + 8x – 9 | | |  |  | | --- | --- | | 16. | x2 + 10x | |
| |  |  | | --- | --- | | 17. | 49x2 - 1 | | |  |  | | --- | --- | | 18. | x2 + 5x - 50 | |
| |  |  | | --- | --- | | 19. | x2 + 10x + 24 | | |  |  | | --- | --- | | 20. | x2 + 6x - 16 | |
| |  |  | | --- | --- | | 21. | 9x4 - 45x3 + 36x2 | | |  |  | | --- | --- | | 22. | x2 - 16x + 60 | |
| |  |  | | --- | --- | | 23. | x2 + 8x – 20 | | |  |  | | --- | --- | | 24. | 10x2 + 55x + 60 | |
| |  |  | | --- | --- | | 25. | 2x2 + 11x + 5 | | |  |  | | --- | --- | | 26. | x2 - 5x - 24 | |
| |  |  | | --- | --- | | 27. | 2x2 - 12x + 16 | | |  |  | | --- | --- | | 28. | x2 + x - 90 | |
| |  |  | | --- | --- | | 29. | 3x2 – 300 | | |  |  | | --- | --- | | 30. | x2 - 16 | |
| 31. 5x3 – 18x2 + 9x | 32. 6x2 + 3x |