

Factor completely or solve by factoring.

1.  $s^2 + 9s + 20$

2.  $x^2 - 2x - 35$

3.  $x^2 + 4x - 12$

4.  $-2x^2 + 5x + 12 = 0$

5.  $8r^3 - 64r^2 + r - 8$

6.  $2x^2 + 10x + 318 = 4x$

7.  $x^2 - 5x + 6$

8.  $81x^4 - 900x^2 = 0$

9.  $x^2 - 5x - 24$

10.  $3w^4 - 21w^2 - 5w^2 + 35$

11.  $9x^2 + 9x + 2 = 0$

12.  $6v^3 - 16v^2 + 21v - 56$

13.  $10x^3 - 1960x = 0$

14.  $x^2 - 11x + 19 = -5$

15.  $x^2 + 7x + 15 = 5$

16.  $12x^3 + 2x^2 - 30x - 5$

17.  $16y^2 - 625$

18.  $4x^2 - 17x + 15 = 0$

Name: \_\_\_\_\_

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19.  $5x^9 - 40x^2$

20.  $4n^2 - 16n + 8n$

21.  $6x^2 - 18x - 18 = 6$

22.  $2x^2 - 11x + 14 = 0$

23.  $16n^2 + 72n + 81$

24.  $96n^3 - 84n^2 + 112n - 98$

25.  $7x^2 - 28x - 14$

26.  $7x^2 - 14x = -7$

27.  $x^2 + 5x - 35 = 3x$

28.  $3x^2 = 9x$

29.  $63n^3 + 54n^2 - 105n - 90$

30.  $6r^3 + 19r^2 = 7r$

31.  $2x^2 + 3x - 9$

32.  $2x^2 - 5 = -7x^2 + 11$

33.  $4x^2 = 15x + 25$

34.  $196c^2 - 16$

35.  $8q^3 + 4q^2 - 4q - 2$

36.  $9x^2 - 168 = 1$