

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

Solve equations:

1.  $x^2-x=0$

2.  $2x^2+4x=0$

3.  $3x^2-7x=0$

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

5.  $2x^2=11x$

6.  $7x^2=21x$

7.  $5x^2=-9x$

8.  $6x^2=-5x$

9.  $x^2-16=0$

10.  $x^2-25=0$

11.  $y^2-25=0$

12.  $z^2-49=0$

13.  $4a^2-49=0$

14.  $25b^2-81=0$

15.  $10x^2-9=0$

16.  $4x^2-121=0$

17.  $0.25m^2-49=0$

18.  $0.25b^2-25=0$

19.  $0.04n^2-144=0$

20.  $0.04n^2-4=0$

21.  $x^3-x=0$

22.  $p^3-p=0$

23.  $3n^3-27n=0$

24.  $5q^3-125q=0$

$$25. 4x^3 = 4x$$

$$26. 4x^3 = 64x$$

**Simplify:**

$$27. 23.4x8 + 46.6x8$$

$$28. 17.9x15 + 25.1x15$$

$$28. 21x3.8 + 62x3.8 + 17x3.8$$

$$29. 34x1.78 + 25x1.78 + 41x1.78$$

$$31. 2.49x163 - 2.12x1.63 + 1.63^2$$

$$32. 0.752^2 - 0.241x0.75 - 0.75x0.45$$

$$33. \frac{910}{137^2 - 123^2}$$

$$34. \frac{960}{274^2 - 34^2}$$

$$35. \frac{324^2 - 36^2}{1440}$$

$$36. \frac{352^2 - 52^2}{808}$$

$$37. \frac{144^2 - 18^2}{153^2 - 90^2}$$

$$38. \frac{76^2 - 30^2}{66^2 - 6^2}$$

$$39. \frac{53^2 - 27^2}{79^2 - 51^2}$$

$$40. \frac{101^2 - 31^2}{139^2 - 29^2}$$