

Prep Homework Solving Equations

Period _____

Solve each equation.

1) $-11 = m - 7 + 3m$

2) $8 = 3r - 7r$

3) $3 + 7x - 5x = -15 - 7x$

4) $-7x - 7 = 1 - 5x$

5) $-(-7x + 3) + 2 = 29 + 2x$

6) $7b + 38 = -4(1 - 7b)$

7) $6(-6 - 7m) = -8(6m - 6)$

8) $6(8n - 6) = -4(-1 - 7n)$

9) $-\frac{4}{3}x + 1 - \frac{1}{3} = -\frac{4}{3}$

10) $2 = \frac{v}{15} + 1$

11) $7 - 7b = 119$

12) $7 + \frac{x}{15} = 6$

13) $27 = 9(x + 9)$

14) $-102 = 5x - 7$

Factor each completely (convert from standard to factored form).

15) $2m^2 - 22m + 60$

16) $x^2 - 11x + 18$

17) $n^2 + 5n + 6$

18) $v^2 - 14v + 40$

Find each product (convert to standard form from factored form).

19) $(6x - 8)(3x - 4)$

20) $(7n - 8)(6n - 3)$

21) $(3p - 4)(3p + 6)$

22) $(x + 8)(2x + 2)$

23) $(3p + 2)(2p^2 + 5p - 8)$

BONUS Find each product.

24) $(5x^2 + 4x + 6)(7x^2 + 5x + 6)$