

Algebra 1 Review 2

Date _____ Period _____

Combine like terms.

1) $-6b^3 + 6b^2 - 8b^3 + 7b^2$

2) $\frac{9}{7}p^2 + \frac{6}{7} + 2 + p^2 - \frac{9}{8}p^3$

3) $3p^3 - 5p^2 - 3p^3 + 4p^2 + 1 - 3p^3 + 4p^2 + 1$

4) $1 + \frac{10}{3}x - \frac{4}{3}x^2 - \frac{5}{2}x^4 + \frac{17}{5}x^4 + \frac{4}{3}x + 2x^3 + \frac{17}{5}x^4 + \frac{4}{3}x + 2x^3$

Simplify each expression.

5) $-5(x + 6)$

6) $2k(1 + 2k)$

7) $-7(-8b + 2) + 10$

8) $6x(2 + 8x) + 8(x + 1)$

Solve each equation.

9) $-2 - 8m = -114$

10) $\frac{4}{3}\left(\frac{4}{3} + n\right) = \frac{68}{27}$

11) $-4 - 3(1 + 5x) = 83$

12) $-\frac{11}{3}\left(-\frac{8}{3}n + 2\right) = -\frac{374}{9}$

13) $\frac{|n|}{6} = 2$

14) $\frac{|2 + x|}{5} = 4$

15) $|3r + 9| = 18$