

Name: _____ Alg 1 H Homework – Solving Equations and Simplifying Expressions

Solve the following equations for the variable. Show all of your work and circle your answers.

1.) $x - 7 = -17$

2.) $5 = \frac{n}{6}$

3.) $\frac{1}{2}p = \frac{5}{6}$

4.) $-4(3a + 1) = -52$

5.) $7 - 6x - 4x = 1 - 5x - 4$

6.) $\frac{1}{4}x + 1 = \frac{1}{6}x + \frac{1}{2}$

7.) $\frac{1}{2}(k - 8) = 6$

8.) $\frac{2}{3}r + \frac{3}{4} = \frac{7}{12}$

Simplify the following.

9.) $\left(\frac{4}{5}\right)^2 - \frac{3}{10}$

10.) $4.57 - 6.23$

11.) $-2\frac{1}{3} + 5\frac{3}{7}$

12.) $(4 - 7) - (3 - 5)$