Homework 3.2 -Solving with Brackets and Fractions

Date_____

Solve each equation.

1) $225 = 5(3 - 6x)$

$\{-7\}$

2) $4(5n - 6) + 3n = -208$

$\{-8\}$

3) $-7(4 - 3r) = -196$

$\{-8\}$

4) $-8p - 6 = -2(-1 + 2p)$

$\{-2\}$

5) $37 - 6k = -7(2k - 3) + 6k$

$\{-8\}$

6) $4x + 12 = 6(4 + 3x) - 2x$

$\{-1\}$

7) $3(1 + 5k) = -2(k + 7)$

$\{-1\}$

8) $-5(1 - 6x) = 7(4x - 5)$

$\{-15\}$

9) $-6(a - 1) = 5a - 7(a - 6)$

$\{-9\}$

10) $9x - 10 + x = 9(4x - 4) - 2(8x + 2)$

$\{3\}$

Solve each equation. First find the common denominator!

11) $\frac{y}{12} = \frac{2}{3}$

y=8

12) $\frac{m}{4} = \frac{m}{5} + 1$

m = 20

13) $\frac{p}{2} - \frac{3p}{4} = \frac{3}{4} - p$

p = 1

14) $\frac{x+1}{3} = \frac{x-1}{5}$

x = -4

15) $\frac{n-1}{3} + \frac{n+2}{6} = 7$

n = 14

16) $\frac{w+1}{2} - \frac{w-7}{6} = 3$

w = 4

17) $4 = \frac{k+1}{3} + \frac{k+5}{5}$

k = 5

18) $\frac{2x+1}{3} - \frac{x+4}{5} = 7$

x = 16