Brackets and Fractions

Solve each of the following

1. $2(x+1)=4$
2. $2(x-3)=2$
3. $3(x+1)=6$
4. $2(3x+4)=14$
5. $14=2(3x-2)$
6. $3(x+5)=18$
7. $2(x+3)-3=8-3x$
8. $5(2x-3)=2(x-2)+5$
9. $2(x+1)=(3x-2)+1$
10. $4(m-2)-(m+3)=m-1$
11. $3(2x+1)-(x-2)=2(x+4)$
12. $\frac{x}{4}=\frac{1}{2}$
13. $\frac{y}{12}=\frac{1}{3}$
14. $\frac{8}{10}=\frac{n}{5}$
15. $\frac{y}{2}=\frac{y}{3}-1$
16. $\frac{y}{4}=\frac{y}{5}+1$
17. $\frac{5n}{2}=\frac{4n}{3}-\frac{7}{6}$
18. $\frac{x+1}{3}=\frac{x-1}{5}$
19. $\frac{3-y}{5}=\frac{-2-3y}{4}$
20. $\frac{x+1}{3}+\frac{x-2}{7}=1$

Answer Key

1. x = 1 2. x = 4 3. x = 1 4. x = 1 5. x = 3 6. x = 1 7. x = 1 8. x = 2 9. x = 3

10. m = 5 11. x = 1 12. x = 2 13. y = 4 14. n = 4 15. y = -6 16. y = 20 17. n = -1

18. x = -4 19. y = -2 20. x = 2