13-3

$$7x - 11 = 3x - 39$$
$$7x - 11 + 11 = 3x - 39 + 11$$
$$7x = 3x - 28$$
$$7x - 3x = 3x - 28 - 3x$$
$$4x = -28$$
$$\frac{4x}{4} = \frac{-28}{4}$$
$$x = -7_{\#}$$

Solve the following equations.

解下列方程。

1. $6x - 12 = 24 + 3x$

2. $7x - 1 = 8x + 29$

3. $4x + 10 = 7x + 25$

4. $x + 3 = 16x - 42$

5. $26 + x = 9 - x$

6. $20 + y = -10 + 4y$

7. $11 - m = 37 - 2m$

8. $15 - 2x = 36 - 5x$

9. $18 - 5y = 10 + 7y$

10. $35 - 6y = 15 - 4y$

11. $6x + 22 = 2x - 2$

12. $14y + 5 = 11y + 20$

13. $3x - 1 = 9 - 5x$

14. $4m + 20 = 60 - 4m$

15. $3 - 2n = 17 + 5n$

16. $28 + 6n = 14 + n$

17. $15m + 4 = 20m + 39$

18. $10 - 4y = 38 - 16y$

19. $18x - 11 = 22x - 29$

20. $9x + 32 = -3x + 20$

13-12

$$\frac{x+3}{6} - \frac{x-3}{30} = \frac{2}{15}$$

$$\frac{5(x+3)}{30} - \frac{x-3}{30} = \frac{4}{30}$$

$$5x + 15 - x + 3 = 4$$

$$4x + 18 = 4$$

$$4x = 4 - 18$$

$$4x = -14$$

$$x = \frac{-14}{4} = \frac{-7}{2} \#$$

Solve the following equations.

解下列方程。

1. $\dfrac{x-8}{5} + 3 = \dfrac{x+8}{6}$

2. $\dfrac{y-2}{4} - \dfrac{y-1}{8} = 1$

3. $\dfrac{x-4}{6} - \dfrac{x}{4} = -1$

4. $8 - \dfrac{x-2}{3} = 5$

5. $\dfrac{y+2}{3} + \dfrac{7-2y}{5} = 0$

6. $\dfrac{n+7}{2} + \dfrac{1}{3} = -\dfrac{n+3}{9}$

7. $\dfrac{2r-1}{8} + \dfrac{4r+2}{3} = \dfrac{5r-5}{6}$

8. $\dfrac{2y-1}{5} - \dfrac{4y+3}{10} = \dfrac{y-3}{2}$

9. $\dfrac{2x-7}{3} = \dfrac{3x+1}{4} - \dfrac{5x-4}{7}$

10. $\dfrac{x}{4} - 4(x-3) = \dfrac{7x}{2} - 3(2x-2)$