

Math 8 Algebra

Solve for X - Novice

Name

Make sure that you show your work!

$$1. \quad 4x + 2 = 10$$

$$\frac{4x}{4} = \frac{8}{4}$$

$$x = 4$$

$$2. \quad 3y - 3 = 6$$

$$\frac{3y}{3} = \frac{9}{3}$$

$$y = 3$$

$$3. \quad 8x - 3 = 13$$

$$\frac{8x}{8} = \frac{16}{8}$$

$$x = 2$$

$$4. \quad 5y - 10 = 5$$

$$\frac{5y}{5} = \frac{15}{5}$$

$$y = 3$$

$$5. \quad 6x + 1 = 19$$

$$\frac{6x}{6} = \frac{18}{6}$$

$$x = 3$$

$$6. \quad 2y + 10 = 2$$

$$\frac{2y}{2} = \frac{-8}{2}$$

$$y = -4$$

$$7. \quad 10x - 20 = 30$$

$$\frac{10x}{10} = \frac{50}{10}$$

$$x = 5$$

$$8. \quad -2x + 8 = 2$$

$$\frac{-2x}{-2} = \frac{-6}{-2}$$

$$x = 3$$

$$9. \quad -3y - 3 = 6$$

$$\frac{-3y}{-3} = \frac{9}{-3}$$

$$y = -3$$

$$10. \quad -4x - 5 = 11$$

$$\frac{-4x}{-4} = \frac{16}{-4}$$

$$x = -4$$

$$11. \quad -6x - 4 = 8$$

$$\frac{-6x}{-6} = \frac{12}{-6}$$

$$x = -2$$

$$12. \quad -7x + 2 = 12$$

$$\frac{-7x}{-7} = \frac{14}{-7}$$

$$x = -2$$

$$13. -8x + 2 = 18$$

$$\cancel{-2} -2$$

$$\frac{-8x}{-8} = \frac{16}{-8}$$

$$\frac{-8}{-8} \quad \frac{-8}{-8}$$

$$x = -2$$

$$14. 4y - 10 = 14$$

$$\cancel{+10} +10$$

$$\frac{4y}{4} = \frac{24}{4}$$

$$y = 6$$

$$15. 3y - 9 = 18$$

$$\cancel{+9} +9$$

$$\frac{3y}{3} = \frac{27}{3}$$

$$y = 9$$

$$16. 11x - 5 = 17$$

$$\cancel{+5} +5$$

$$\frac{11x}{11} = \frac{22}{11}$$

$$x = 2$$

$$17. 12x - 2 = 22$$

$$\cancel{+2} +2$$

$$\frac{12x}{12} = \frac{24}{12}$$

$$x = 2$$

$$18. -2x + 12 = 4$$

$$\cancel{-12} -12$$

$$\frac{-2x}{-2} = \frac{-8}{-2}$$

$$x = 4$$

$$19. -3x - 10 = -4$$

$$\cancel{+10} +10$$

$$\frac{-3x}{-3} = \frac{6}{-3}$$

$$x = -2$$

$$20. 5y + 15 = 5$$

$$\cancel{-15} -15$$

$$\frac{5y}{5} = \frac{-10}{5}$$

$$y = -2$$

$$21. 8x - 2 = 2$$

$$\cancel{+2} +2$$

$$\frac{8x}{8} = \frac{4}{8}$$

$$\cancel{x = 2}$$

$$22. 12x + 12 = 24$$

$$\cancel{-12} -12$$

$$\frac{12x}{12} = \frac{12}{12}$$

$$x = 1$$

$$23. 4m + 20 = 4$$

$$\cancel{-20} -20$$

$$\frac{4m}{4} = \frac{-16}{4}$$

$$m = -4$$

$$24. -3x + 2 = 11$$

$$\cancel{-2} -2$$

$$\frac{-3x}{-3} = \frac{19}{-3}$$

$$x = -3$$

oops, I put a fraction in there.