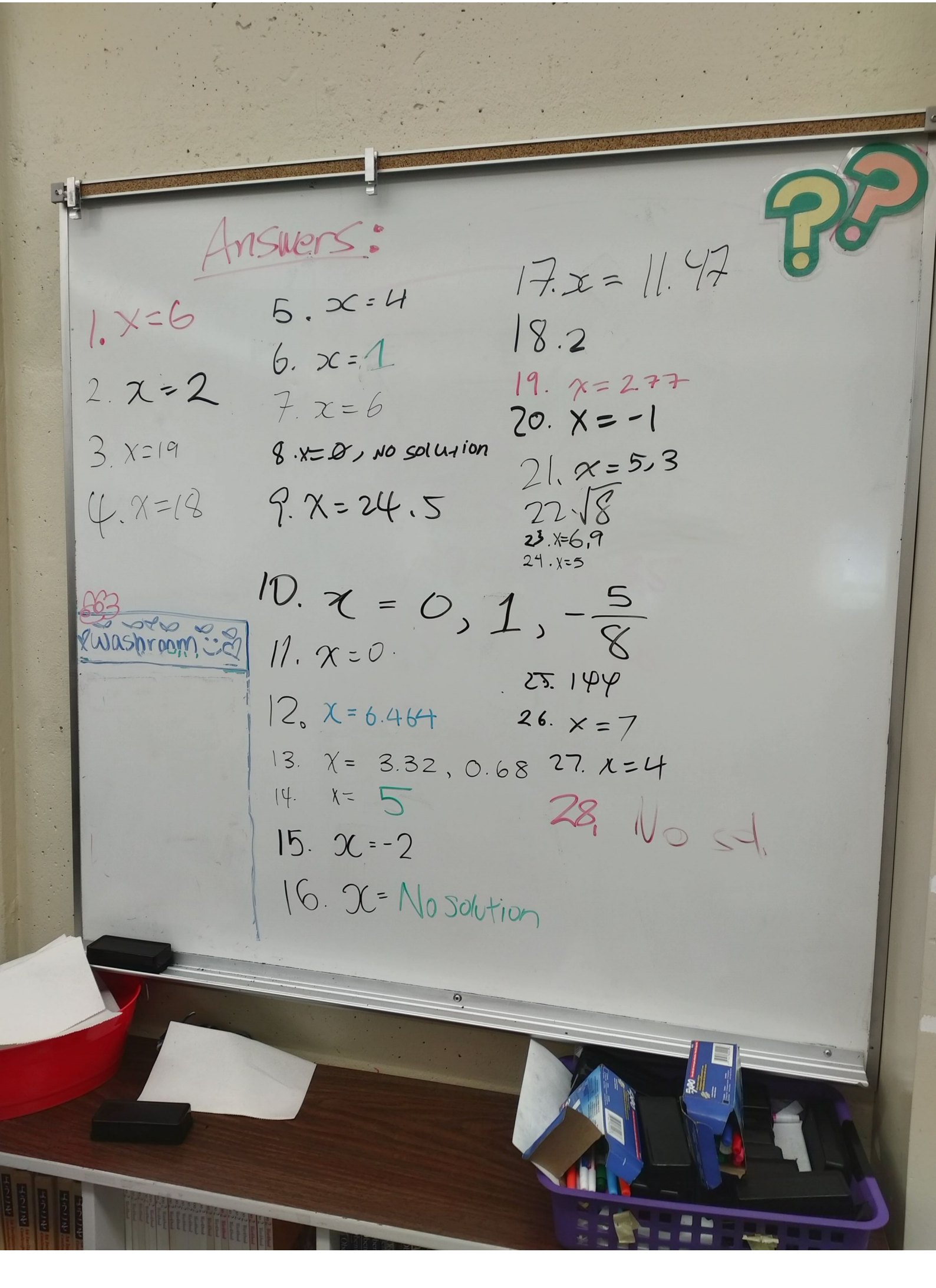
Questions:

1. $\sqrt{-4x+33} = x-3$
2. $\sqrt{10x+5} = 3x-1$
3. $\sqrt{7x+36}+6 = x$
4. $\sqrt{x-14} = x-16$
5. $x = \sqrt{x+12}$
6. $\sqrt{3x-2} = 4x-3$
7. $\sqrt{x-2} = 2x-10$
8. $\sqrt{3x-1} = \sqrt{6x+2}$
9. $\sqrt{6x-3} = \sqrt{2x+95}$
10. $\sqrt[3]{3x^2+5x} = 2x$
11. $\sqrt{\sqrt{3x+36}} = \sqrt{3x+6}$!! :)
12. (★) $\sqrt{2x^2+2}+2 = \sqrt{12x+10}$
13. $2x = \sqrt{-9+16x}$
14. $x = \sqrt{10+3x}$
15. $\sqrt{1-4x} = 3$
16. $\sqrt{x^2} = \sqrt{2x-15}$
17. (★) $\sqrt{(2x-5)} - \sqrt{(x-1)} = 1$
18. $\sqrt{4x-4} = 3x-4$
19. $4\sqrt{\frac{5}{6}x+3} = \frac{10}{3}$
20. $\sqrt{2x+6} = 4x+6$
21. $x = \sqrt{8x-15}$
22. $-x\sqrt{x^2+6} = -\sqrt{12(x^2+\frac{4}{3})}$
23. $x = \sqrt{15x-54}$
24. $\frac{5}{\sqrt{x-1}} + \frac{\sqrt{x+4}}{2} = 2\sqrt{x-1}$
25. $\sqrt{\sqrt{\sqrt{\frac{x}{12}}}} = \sqrt{\sqrt{\sqrt{\sqrt{x}}}}$
26. $\sqrt[3]{\sqrt{11x-13}}-4 = -2$
27. $x = \sqrt{x+12}$
28. $\sqrt[4]{\sqrt{x^{-2}}+2} = \sqrt[4]{x^{\frac{1}{2}}+1}$
29. $\sqrt{x^2+(78x\sqrt[4]{625} \cdot \sqrt[5.5]{4x.8888}}$


Answers:
1. x=6
2. x=2
3. x=19
4. x=18
5. x=4
6. x=1
7. x=6
8. x=∅, no solution
9. x=24.5
10. x = 0, 1, -5/8
11. x=0
12. x=6.464
13. x= 3.32, 0.68
14. x= 5
15. x=-2
16. x= No solution
17. x=11.47
18. 2
19. x=277
20. x=-1
21. x=5,3
22. √8
23. x=6,9
24. x=5
25. 144
26. x=7
27. x=4
28. No sol.
Washroom