Solve over the real numbers:

1. $x^{\frac{-2}{3}} + 15 = 24$

2. $2x = 5\sqrt{x} - 2$

3. $\sqrt{x-5} + 7 = x$

4. $\sqrt{x+4} + \sqrt{x} = 3$

5. $\sqrt{3x+3} - \sqrt{x+5} = 2$

6. $2\sqrt[3]{x} = \sqrt[6]{x^5}$

7. $4x^{\frac{-3}{2}} = 32$

8. $3x = \sqrt{7-x} - 3$

9. $\sqrt{3x-2} - \sqrt{2x-3} = 1$

10. $\sqrt{x+2} - \sqrt{x-2} = \sqrt{2x}$

Answers: 1. 1/27   2. 1/4, 4   3. 9   4. 25/36   5. 11   6. 0, 4   7. 1/4
           8. –1/9   9. 6, 2   10. 2