

1. $|3x + 1| = 4$ $\{-\frac{5}{3}; 1\}$

2. $|x| = |x + 1|$ $\{-\frac{1}{2}\}$

3. $x^2 + |x| = 0$ $\{0\}$

4. $x^2 + |x + 1| = 1$ $\{-1; 0\}$

5. $|x + 2| = x - |x + 3|$ \emptyset

6. $2x + |x| - 3|x - 3| = 0$ $\{\frac{3}{2}\}$

7. $|2x - 1| + |3 - x| = 1$ \emptyset

8. $|x + 2| = 4|x - 3|$ $\{2; \frac{14}{3}\}$

9. $|8 - 5x| = 5x - 8$ $\langle \frac{8}{5}; \infty \rangle$

10. $|4x - 7| = -1$ \emptyset

11. $|x - 1| + 3|2 - x| = x - |1 - x|$ $\{2\}$

12. $2x^2 + |x - 1| + |x + 2| = 0$ \emptyset

13. $|x + 2| \cdot |x - 2| = 3$ $\{1; -1; \sqrt{7}; -\sqrt{7}\}$