

## Homework: Linear Equations and Rational Equations - Key

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In Problems 1-7, solve each linear equation

1. $x = 5$	2. $x = 8$
3. $x = 2$	4. $x = \frac{-5}{2}$
5. $x = -11$	6. $x = -3$
7. $x = \frac{35}{4}$	

In Problems 8-14, solve each linear equation

8. $x = -15$	9. $x = 30$
10. $x = \frac{24}{19}$	11. $x = \frac{-4}{3}$
12. $x = 10$	13. $x = \frac{91}{5}$
14. $x = \frac{10}{11}$	

In Problems 15-19, solve each rational equation

15. $x = \frac{-1}{3}$	16. $x = \frac{34}{25}$
17. $x = 2$	18. $x = 36$
19. $x = \frac{-8}{3}$	

In Problems 20-23, Determine whether each equation is an identity, a conditional equation, or an inconsistent equation

20. <i>identity</i>	21. <i>inconsistent</i>
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22. conditional,  $x = 0$

23. inconsistent