

1. $x = -\frac{1}{2}, -5$

2. $(x-3)^2=16$

3. $2\frac{2}{3}$ hours

4. 12 hours

5. $\frac{3}{5} - \frac{1}{5}i$

6. $\frac{-1 \pm \sqrt{11}i}{2}$

7. $x = 39$

8. $x > \frac{1}{4}$

9. $650 \leq h \leq 850$

10. $(2,0); (0,-3)$

11. $3\sqrt{5}$

12. $m = \frac{1}{2}$

13. $x-3y=-12$

14. $V=120t+1700$

15. $y=x^2-4$