

NO Calculators

Ex 1-6: Solve the following.

1. $2x^2 - 3x + 2 = 0$

2. $2x^2 + x = 3$

3. $3x^2 + 4x + 1 = 0$

4. $x^2 - 4x + 1 = 0$

5. $x^2 - 16 = 0$

6. $x^2 + 25 = 0$

Ex 7-8: Solve the system. Give the solutions as ordered pairs.

7.
$$\begin{cases} y = x^2 - 6x + 14 \\ y = 5 \end{cases}$$

8.
$$\begin{cases} y + 16x - 22 - 4x^2 = 0 \\ 4x^2 - 24x + 26 + y = 0 \end{cases}$$

9. At time $t = 0$ seconds, a ball is dropped from an altitude of 100 feet. Find the altitude at $t = 2$ seconds.

10. A rock is dropped from a height of 1000 feet. How long will it take to hit the ground?

11. A ball is thrown upward at a velocity of 60 feet per second. Find the maximum height.

12. Solve: $x^2 + 10x + 9 < 0$

13. Solve: $x^2 - 11x + 28 > 0$

14. Graph the solution: $-2x^2 + 7x - 6 < 0$



15. Graph the solution: $y > -x^2 + 4x - 3$

