

M3 Solutions Review



jvwwosrs

1. Solve: $3x^2 + 5x - 7 = 0$

A. $\frac{5 \pm \sqrt{109}}{6}$

B. $\frac{\pm 5\sqrt{109}}{6}$

C. $\frac{-5 \pm \sqrt{109}}{6}$

D. no real solutions

2. Solve: $x^2 - 10x = 20$

A. $\{-5 + 5\sqrt{3}, -5 - 5\sqrt{3}\}$

B. $\{-5 + 3\sqrt{5}, -5 - 3\sqrt{5}\}$

C. $\{5 + 3\sqrt{5}, 5 - 3\sqrt{5}\}$

D. $\{0, 5\}$

3. Which equation has the complex number $4 - 3i$ as a root?

A. $x^2 + 6x - 25 = 0$

B. $x^2 - 6x + 25 = 0$

C. $x^2 + 8x - 25 = 0$

D. $x^2 - 8x + 25 = 0$

4. Which quadratic equation has the roots $2 - \sqrt{3}$ and $2 + \sqrt{3}$?

A. $x^2 - 4x + 7 = 0$

B. $x^2 + 4x + 7 = 0$

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

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

5. What is the solution of the equation $x^2 + 9 = 0$?

A. $\{3i\}$

B. $\{-3i\}$

C. $3, -3$

D. $\{3i, -3i\}$

6. The third term of the expansion $(2x - 3y)^5$ is

A. $10x^3y^2$

B. $720x^3y^2$

C. $-720x^3y^2$

D. $-1080x^2y^3$

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M3 Solutions Review 10/21/2014

1.
Answer: C
Objective: A.REI.04B
2.
Answer: C
Objective: A.REI.04B
3.
Answer: D
4.
Answer: C
5.
Answer: D
6.
Answer: B