Algebra II Practice A.REI.B.4: Solving Quadratics 13
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NAME:_____

Solve:

1. $7x^2 + 50 = 0$

[A] $x = \frac{\pm i\sqrt{14}}{10}$ [B] $x = \frac{\pm 5i\sqrt{14}}{7}$

[C] $x = \frac{\pm 5i\sqrt{2}}{7}$ [D] $x = \pm 5i\sqrt{2}$

2. $3x^2 + 28 = 0$

[A] $x = \frac{\pm 2i\sqrt{7}}{3}$ [B] $x = \pm 2i\sqrt{7}$

[C] $x = \frac{\pm 2i\sqrt{21}}{3}$ [D] $x = \frac{\pm i\sqrt{21}}{14}$

3. $x^2 + 2x + 17 = 0$

[A] $1 + 8i,\ 1 - 8i$ [B] $-1 + 4i,\ -1 - 4i$

[C] $1 + 4i,\ 1 - 4i$ [D] $-1 + 8i,\ -1 - 8i$

4. $x^2 - 4x + 20 = 0$

[A] $-2 + 8i,\ -2 - 8i$

[B] $-2 + 4i,\ -2 - 4i$

[C] $2 + 8i,\ 2 - 8i$ [D] $2 + 4i,\ 2 - 4i$

5. $x^2 + 6x + 3 = 0$

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

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

8. $x^2 + 2x + 10 = 0$

9. $-3x + 6 + 5x^2 = 0$

10. $-x + 4 + 6x^2 = 0$

[1] B

[2] C

[3] B

[4] D

[5] $-3 \pm \sqrt{6}$

[6] $2 \pm \sqrt{2}$

[7] $3+4i,\ 3-4i$

[8] $-1+3i,\ -1-3i$

[9] $\frac{3 \pm i\sqrt{111}}{10}$

[10] $\frac{1 \pm i\sqrt{95}}{12}$