

Assignment

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Date_____ Period____

Solve each equation with the quadratic formula.

1) $3m^2 + 4m + 4 = 0$

2) $n^2 + n + 1 = 0$

3) $2x^2 - x + 2 = 0$

4) $4x^2 - 3x + 3 = 0$

5) $4p^2 + p + 5 = 0$

6) $4n^2 - n - 2 = -3$

$$7) \ x^2 + x + 5 = 3$$

$$8) \ x^2 - 3x + 9 = 5$$

$$9) \ 2m^2 - 5m + 9 = 5$$

$$10) \ 4r^2 + 3r + 8 = 5$$

$$11) \ 5x^2 + 2 = 2x$$

$$12) \ 3b^2 + 4 = -3b$$

$$13) \ 4x^2 + 2 = 4x$$

$$14) \ 5n^2 + 1 = 4n$$

$$15) \ 5v^2 = -v - 1$$

$$16) \ 4x^2 - 1 = -2x - 5$$

$$17) \ 3a^2 - 5a + 7 = 2a^2 - 3a + 4$$

$$18) \ 4k^2 + k + 6 = -3k + 4$$

$$19) \ 4p^2 + p + 3 = 2p$$

$$20) \ 2n^2 + 8 = 3 - n$$

$$21) \ -4x^2 + 7x - 4 = 3x$$

$$22) \ -2r^2 + 4 = -3r^2$$

$$23) -2b^2 + 5 + 3b = 3b - 5b^2$$

$$24) 0 = 3n^2 + 2$$

$$25) -5m^2 + m = 3 - m^2 + 3m$$

Answers to Assignment (ID: 1)

- 1) $\left\{ \frac{-2+2i\sqrt{2}}{3}, \frac{-2-2i\sqrt{2}}{3} \right\}$ 2) $\left\{ \frac{-1+i\sqrt{3}}{2}, \frac{-1-i\sqrt{3}}{2} \right\}$ 3) $\left\{ \frac{1+i\sqrt{15}}{4}, \frac{1-i\sqrt{15}}{4} \right\}$
 4) $\left\{ \frac{3+i\sqrt{39}}{8}, \frac{3-i\sqrt{39}}{8} \right\}$ 5) $\left\{ \frac{-1+i\sqrt{79}}{8}, \frac{-1-i\sqrt{79}}{8} \right\}$ 6) $\left\{ \frac{1+i\sqrt{15}}{8}, \frac{1-i\sqrt{15}}{8} \right\}$
 7) $\left\{ \frac{-1+i\sqrt{7}}{2}, \frac{-1-i\sqrt{7}}{2} \right\}$ 8) $\left\{ \frac{3+i\sqrt{7}}{2}, \frac{3-i\sqrt{7}}{2} \right\}$ 9) $\left\{ \frac{5+i\sqrt{7}}{4}, \frac{5-i\sqrt{7}}{4} \right\}$
 10) $\left\{ \frac{-3+i\sqrt{39}}{8}, \frac{-3-i\sqrt{39}}{8} \right\}$ 11) $\left\{ \frac{1+3i}{5}, \frac{1-3i}{5} \right\}$ 12) $\left\{ \frac{-3+i\sqrt{39}}{6}, \frac{-3-i\sqrt{39}}{6} \right\}$
 13) $\left\{ \frac{1+i}{2}, \frac{1-i}{2} \right\}$ 14) $\left\{ \frac{2+i}{5}, \frac{2-i}{5} \right\}$ 15) $\left\{ \frac{-1+i\sqrt{19}}{10}, \frac{-1-i\sqrt{19}}{10} \right\}$
 16) $\left\{ \frac{-1+i\sqrt{15}}{4}, \frac{-1-i\sqrt{15}}{4} \right\}$ 17) $\{1+i\sqrt{2}, 1-i\sqrt{2}\}$ 18) $\left\{ \frac{-1+i}{2}, \frac{-1-i}{2} \right\}$
 19) $\left\{ \frac{1+i\sqrt{47}}{8}, \frac{1-i\sqrt{47}}{8} \right\}$ 20) $\left\{ \frac{-1+i\sqrt{39}}{4}, \frac{-1-i\sqrt{39}}{4} \right\}$ 21) $\left\{ \frac{1-i\sqrt{3}}{2}, \frac{1+i\sqrt{3}}{2} \right\}$
 22) $\{2i, -2i\}$ 23) $\left\{ \frac{i\sqrt{15}}{3}, -\frac{i\sqrt{15}}{3} \right\}$ 24) $\left\{ -\frac{i\sqrt{6}}{3}, \frac{i\sqrt{6}}{3} \right\}$
 25) $\left\{ \frac{-1-i\sqrt{11}}{4}, \frac{-1+i\sqrt{11}}{4} \right\}$