

## Why use Task Cards:

Tired of worksheets? Can I accomplish the same level of mastery with task cards? Here's some reasons you should using task cards:

- They are just one task per card, which seems less overwhelming to students.
- They are designed to tackle one specific learning objective at a time.
- Differentiation easy is a breeze. Task cards are scaffolded and easy to break up according to ability level.
  - ⇒ 1-6 are imaginary solutions, right side is zero.
  - ⇒ 7-12 are imaginary solutions right side is a number.
  - ⇒ 13-18 are imaginary solutions with no like terms but in standard form.
  - ⇒ 19-24 are imaginary solutions with like terms on both sides.
- They can be used in a variety of ways: partner work, centers or stations, small groups, individually and even with whole class.
- They save paper: Copy, cut, and laminate once instead of tons of paper.
- They are easy to grade.

Thank you for purchasing my product from my TPT store. I am excited you found something that will help you with your class.



Contact Me: [dmbunson@gmail.com](mailto:dmbunson@gmail.com)

My TPT site: <https://www.teacherspayteachers.com/Store/Donna-Brunson>

**1** Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$11x^2 - 4x + 11 = 0$$

**2** Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$6p^2 + 9p + 6 = 0$$

**3** Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$8n^2 + 4 = 0$$

**4** Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$6p^2 + 2p + 9 = 0$$

**5**

Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$4v^2 + 4v + 11 = 0$$

**7**

Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$5n^2 + 9n + 2 = -7$$

**6**

Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$6k^2 - 6k + 3 = 0$$

**8**

Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$6v^2 - 3v - 8 = -10$$

**9**

Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$12x^2 - 3x + 17 = 9$$

**11**

Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$8a^2 + 5a + 16 = 11$$

**10**

Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$7n^2 - 4n + 14 = 6$$

**12**

Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$8k^2 - 8k + 1 = -11$$

**13**

Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$r^2 + 10 = 0$$

**15**

Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$10x^2 + 4 = -5x$$

**14**

Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$8m^2 = -9 - 12m$$

**16**

Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$3n^2 = -6$$

**17**

Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$12n^2 = -9$$

**19**

Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$n^2 + 10 = -6n$$

**18**

Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$4kn^2 = -12$$

**20**

Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$8n^2 + 11 = 12n$$

**21** Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$6k^2 - 10k + 7 = -1k^2$$

**22** Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$4a^2 + 3a + 9 = -5a^2$$

**23** Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$11r^2 + 2r + 7 = -1 - 9r$$

**24** Solve using the quadratic formula.  
Leave your answer in the simplest radical form.

$$6n^2 + 11n + 13 = 4 + 9n$$

Name: \_\_\_\_\_ Date: \_\_\_\_\_

**Solve the Quadratic Equation using the Quadratic Formula- Recording Sheet**  
~ Show all your work~

<b>1</b>		<b>2</b>	
<b>3</b>		<b>4</b>	
<b>5</b>		<b>6</b>	
<b>7</b>		<b>8</b>	

Solve the Quadratic Equation using the Quadratic Formula- Recording Sheet  
~ Show all your work~

<b>9</b>		<b>10</b>	
<b>11</b>		<b>12</b>	
<b>13</b>		<b>14</b>	
<b>15</b>		<b>16</b>	

Solve the Quadratic Equation using the Quadratic Formula- Recording Sheet  
~ Show all your work~

<b>17</b>		<b>18</b>	
<b>19</b>		<b>20</b>	
<b>21</b>		<b>22</b>	
<b>23</b>		<b>24</b>	

# ANSWER KEY

Solve the Quadratic Equation using the Quadratic Formula- Recording Sheet  
~ Show all your work~

<b>1</b>	1) $11x^2 - 4x + 11 = 0$ $\left\{ \frac{2 + 3i\sqrt{13}}{11}, \frac{2 - 3i\sqrt{13}}{11} \right\}$	<b>2</b>	2) $6p^2 + 9p + 6 = 0$ $\left\{ \frac{-3 + i\sqrt{7}}{4}, \frac{-3 - i\sqrt{7}}{4} \right\}$
<b>3</b>	3) $8n^2 + 4 = 0$ $\left\{ \frac{i\sqrt{2}}{2}, -\frac{i\sqrt{2}}{2} \right\}$	<b>4</b>	4) $6p^2 + 2p + 9 = 0$ $\left\{ \frac{-1 + i\sqrt{53}}{6}, \frac{-1 - i\sqrt{53}}{6} \right\}$
<b>5</b>	5) $4v^2 + 4v + 11 = 0$ $\left\{ \frac{-1 + i\sqrt{10}}{2}, \frac{-1 - i\sqrt{10}}{2} \right\}$	<b>6</b>	6) $6k^2 - 6k + 3 = 0$ $\left\{ \frac{1 + i}{2}, \frac{1 - i}{2} \right\}$
<b>7</b>	7) $5n^2 + 9n + 2 = -7$ $\left\{ \frac{-9 + 3i\sqrt{11}}{10}, \frac{-9 - 3i\sqrt{11}}{10} \right\}$	<b>8</b>	8) $6v^2 - 3v - 8 = -10$ $\left\{ \frac{3 + i\sqrt{39}}{12}, \frac{3 - i\sqrt{39}}{12} \right\}$

Solve the Quadratic Equation using the Quadratic Formula- Recording Sheet  
 ~ Show all your work~

<b>9</b>	9) $12x^2 - 3x + 17 = 9$ $\left\{ \frac{3 + 5i\sqrt{15}}{24}, \frac{3 - 5i\sqrt{15}}{24} \right\}$	<b>10</b>	10) $7n^2 - 4n + 14 = 6$ $\left\{ \frac{2 + 2i\sqrt{13}}{7}, \frac{2 - 2i\sqrt{13}}{7} \right\}$
<b>11</b>	11) $8a^2 + 5a + 16 = 11$ $\left\{ \frac{-5 + 3i\sqrt{15}}{16}, \frac{-5 - 3i\sqrt{15}}{16} \right\}$	<b>12</b>	12) $2k^2 - 8k + 1 = -11$ $\{2 + i\sqrt{2}, 2 - i\sqrt{2}\}$
<b>13</b>	13) $r^2 + 10 = 0$ $\{i\sqrt{10}, -i\sqrt{10}\}$	<b>14</b>	14) $8m^2 = -9 - 12m$ $\left\{ \frac{-3 + 3i}{4}, \frac{-3 - 3i}{4} \right\}$
<b>15</b>	15) $10x^2 + 4 = -5x$ $\left\{ \frac{-5 + 3i\sqrt{15}}{20}, \frac{-5 - 3i\sqrt{15}}{20} \right\}$	<b>16</b>	16) $3n^2 = -6$ $\{i\sqrt{2}, -i\sqrt{2}\}$

Solve the Quadratic Equation using the Quadratic Formula- Recording Sheet  
 ~ Show all your work~

<b>17</b>	17) $12n^2 = -9$ $\left\{ \frac{i\sqrt{3}}{2}, -\frac{i\sqrt{3}}{2} \right\}$	<b>18</b>	18) $4k^2 = -12$ $\{i\sqrt{3}, -i\sqrt{3}\}$
<b>19</b>	19) $n^2 + 10 = -6n$ $\{-3 + i, -3 - i\}$	<b>20</b>	20) $8n^2 + 11 = 12n$ $\left\{ \frac{3 + i\sqrt{13}}{4}, \frac{3 - i\sqrt{13}}{4} \right\}$
<b>21</b>	21) $6k^2 - 10k + 7 = -k^2$ $\left\{ \frac{5 + 2i\sqrt{6}}{7}, \frac{5 - 2i\sqrt{6}}{7} \right\}$	<b>22</b>	22) $4a^2 + 3a + 9 = -5a^2$ $\left\{ \frac{-1 + i\sqrt{35}}{6}, \frac{-1 - i\sqrt{35}}{6} \right\}$
<b>23</b>	23) $11r^2 + 2r + 7 = -1 - 9r$ $\left\{ \frac{-11 + i\sqrt{231}}{22}, \frac{-11 - i\sqrt{231}}{22} \right\}$	<b>24</b>	24) $6n^2 + 11n + 13 = 4 + 9n$ $\left\{ \frac{-1 + i\sqrt{53}}{6}, \frac{-1 - i\sqrt{53}}{6} \right\}$