

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

# Radical Equation: Coloring Worksheet

Direction: Solve the radical equations. Check for extraneous solutions. Choose the color of your answer option and color the corresponding answer box.

① $x = \sqrt{2x}$	$\{0\}$ WHITE	$\{-2,0\}$ BLUE	$\{-2\}$ GREEN	$\{0,2\}$ GRAY
-------------------	------------------	--------------------	-------------------	-------------------

② $\sqrt[3]{x} = 4$	$\{1,-4\}$ MAROON	$\{64\}$ RED	$\{-64\}$ PINK	$\{0,2\}$ BLUE
---------------------	----------------------	-----------------	-------------------	-------------------

③ $\sqrt{4n+8} = n+3$	$\{1\}$ PURPLE	$\{-1\}$ VIOLET	$\{0,1\}$ PINK	$\{1,0\}$ GREEN
-----------------------	-------------------	--------------------	-------------------	--------------------

④ $4 + \sqrt{-3m+10} = m$	$\{2,3\}$ ORANGE	$\{3,0\}$ RED	{NO SOLUTION} WHITE	$\{0,3\}$ MAROON
---------------------------	---------------------	------------------	------------------------	---------------------

⑤ $\sqrt{7p-54} - p = -6$	$\{-9,10\}$ BLUE	$\{10,-9\}$ GREEN	$\{10\}$ ORANGE	$\{9,10\}$ RED
---------------------------	---------------------	----------------------	--------------------	-------------------

⑥ $\sqrt{4-b} - \sqrt{3-b} = 1$	$\{3\}$ GREEN	$\{-3\}$ PURPLE	$\{0,-3\}$ PINK	$\{-3,0\}$ BLUE
---------------------------------	------------------	--------------------	--------------------	--------------------

⑦ $\sqrt{x} = \sqrt{4-x}$	$\{-4\}$ YELLOW	$\{4\}$ PINK	$\{2\}$ BROWN	$\{-2\}$ RED
---------------------------	--------------------	-----------------	------------------	-----------------

⑧ $\sqrt{v+3} - 1 = 7$	$\{-61\}$ MAROON	$\{60\}$ WHITE	$\{6\}$ BLUE	$\{61\}$ PURPLE
------------------------	---------------------	-------------------	-----------------	--------------------

⑨ $\sqrt{x-6} + 8 = x$	$\{0,1\}$ RED	$\{10\}$ GRAY	$\{-1,1\}$ BLUE	$\{-10\}$ WHITE
------------------------	------------------	------------------	--------------------	--------------------

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

# Radical Equation: Coloring Worksheet

## Answers

① $x = \sqrt{2x}$	$\{0\}$ WHITE	$\{-2,0\}$ BLUE	$\{-2\}$ GREEN	$\{0,2\}$ GRAY
-------------------	------------------	--------------------	-------------------	-------------------

② $\sqrt[3]{x} = 4$	$\{1,-4\}$ MAROON	$\{64\}$ RED	$\{-64\}$ PINK	$\{0,2\}$ BLUE
---------------------	----------------------	-----------------	-------------------	-------------------

③ $\sqrt{4n+8} = n+3$	$\{1\}$ PURPLE	$\{-1\}$ VIOLET	$\{0,1\}$ PINK	$\{1,0\}$ GREEN
-----------------------	-------------------	--------------------	-------------------	--------------------

④ $4 + \sqrt{-3m+10} = m$	$\{2,3\}$ ORANGE	$\{3,0\}$ RED	{NO SOLUTION} WHITE	$\{0,3\}$ MAROON
---------------------------	---------------------	------------------	------------------------	---------------------

⑤ $\sqrt{7p-54} - p = -6$	$\{-9,10\}$ BLUE	$\{10,-9\}$ GREEN	$\{10\}$ ORANGE	$\{9,10\}$ RED
---------------------------	---------------------	----------------------	--------------------	-------------------

⑥ $\sqrt{4-b} - \sqrt{3-b} = 1$	$\{3\}$ GREEN	$\{-3\}$ PURPLE	$\{0,-3\}$ PINK	$\{-3,0\}$ BLUE
---------------------------------	------------------	--------------------	--------------------	--------------------

⑦ $\sqrt{x} = \sqrt{4-x}$	$\{-4\}$ YELLOW	$\{4\}$ PINK	$\{2\}$ BROWN	$\{-2\}$ RED
---------------------------	--------------------	-----------------	------------------	-----------------

⑧ $\sqrt{v+3} - 1 = 7$	$\{-61\}$ MAROON	$\{60\}$ WHITE	$\{6\}$ BLUE	$\{61\}$ PURPLE
------------------------	---------------------	-------------------	-----------------	--------------------

⑨ $\sqrt{x-6} + 8 = x$	$\{0,1\}$ RED	$\{10\}$ GRAY	$\{-1,1\}$ BLUE	$\{-10\}$ WHITE
------------------------	------------------	------------------	--------------------	--------------------