Choose one problem from each column to complete as a group. Create a poster solving your group's problems. Clearly show the problem you are working on and all work required to answer the question. Each problem has a different point value. Your grade will be the total points earned out of 15, without the ability to go beyond 15 points.

Solving Radicals

- 1) $\sqrt{2a-7} = \sqrt{8-a}$ (6 points)
- 2) $\sqrt{3\nu + 27} = \sqrt{3 \nu}$ (6 points)
- 3) $1 \sqrt{3\nu + 4} + \sqrt{2\nu + 1}$ (8 points)
- 4) $\sqrt{7b-3} = \sqrt{8-b} + 3$ (8 points)
- 5) $\sqrt{2h-5} + \sqrt{h-3} = 1$ (8 points)
- 6) $\sqrt{5k+5} \sqrt{3k+4} = 1$ (10 points)
- 7) $\sqrt{3n+1} \sqrt{2-2n} = 2$ (10 points)

Graphing

- 1) Graph the function and its inverse. Explain every step along the way. $g(x) = \frac{2}{-x-3}$. State the domain and range of the function and its inverse. **(10 points).**
- 2) Graph the function and its inverse. Explain every step along the way. g(x) = -(2x 3)³. State the domain and range of the function and its inverse. (10 points)
- 3) Graph the function $y = -(x + 2)^2 3$. **(5 points).**
- 4) Graph the function $y = 2\sqrt{x+1} + 3$. (5 points)
- 5) Graph the function $y = -3\sqrt{x-4} + 2$ (7 points)
- 6) Graph the function $y = 2\sqrt[3]{3-x}+1$ (8 points)
- 7) Graph the function $y = -4\sqrt[3]{x-6} + 2$ (8 points)