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

Graphing

1) $\sqrt{2 a-7}=\sqrt{8-a}$ ( 6 points)
2) $\sqrt{3 v+27}=\sqrt{3-v} \quad$ (6 points)
3) $1-\sqrt{3 v+4}+\sqrt{2 v+1}$ (8 points)
4) $\sqrt{7 b-3}=\sqrt{8-b}+3$ (8 points)
5) $\sqrt{2 h-5}+\sqrt{h-3}=1$ (8 points)
6) $\sqrt{5 k+5}-\sqrt{3 k+4}=1$ ( 10 points)
7) $\sqrt{3 n+1}-\sqrt{2-2 n}=2$ (10 points)
8) 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).
9) Graph the function and its inverse. Explain every step along the way. $g(x)=-(2 x-3)^{3}$. State the domain and range of the function and its inverse. ( 10 points)
10) Graph the function $y=-(x+2)^{2}-3$. ( 5 points).
11) Graph the function $y=2 \sqrt{x+1}+3$. (5 points)
12) Graph the function $y=-3 \sqrt{x-4}+2$ (7 points)
13) Graph the function $y=2 \sqrt[3]{3-x}+1$ (8 points)
14) Graph the function $y=-4 \sqrt[3]{x-6}+2$ (8 points)
