

Spring Benchmark 1 Review 2

Solve each equation. Remember to check for extraneous solutions.

1) $10 + \sqrt{7 - k} = 11$

2) $14 = 5 + \sqrt{r - 4}$

3) $\sqrt{11 - 2x} = \sqrt{7 - x}$

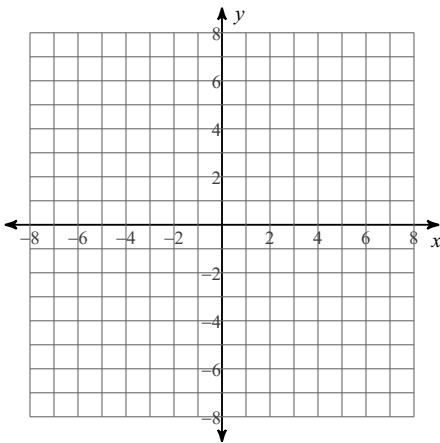
4) $\sqrt{x + 1} = \sqrt{9 - x}$

5) $\sqrt{-5 - k} = \sqrt{2k + 19}$

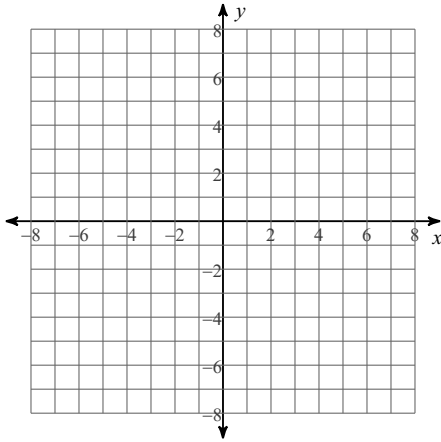
6) $4 = -5 + \sqrt{81a}$

List the transformations, identify the domain and range of each, and sketch the graph.

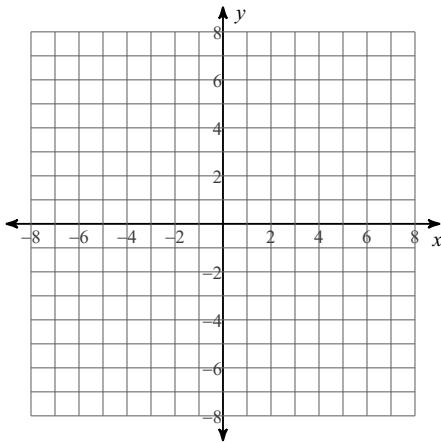
7) $y = 3\sqrt[3]{x - 3}$



8) $y = -2\sqrt[3]{x} - 4$



9) $y = -\frac{1}{2}\sqrt{x+2} + 5$



10) $y = \sqrt{4x} - 2$

