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Spring Benchmark 1 Review 2

Date Period

Solve each equation. Remember to check for extraneous solutions.

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

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

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

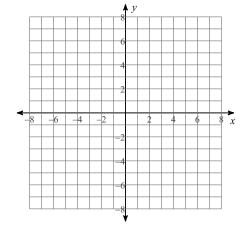
4)
$$\sqrt{x+1} = \sqrt{9-x}$$

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

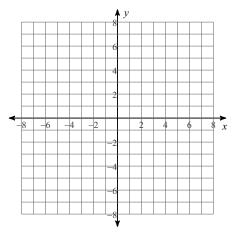
6)
$$4 = -5 + \sqrt{81a}$$

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

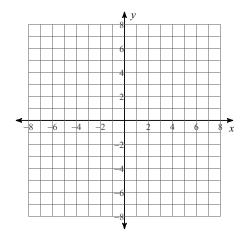
7)
$$y = 3\sqrt[3]{x-3}$$



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



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



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

