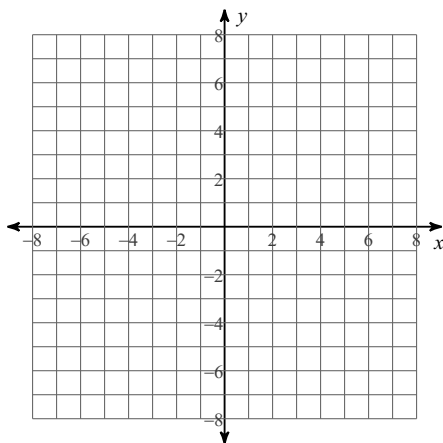


Algebra 1 Honors Quiz Review - Radical Expressions

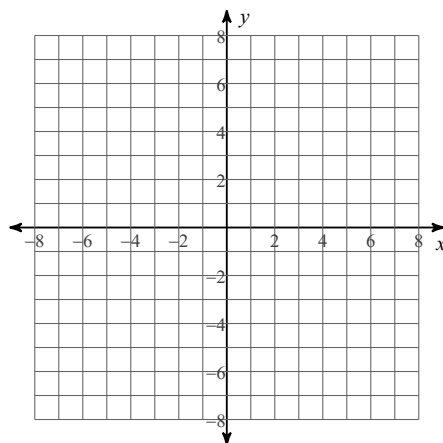
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Sketch the graph of each function. Be sure to show your chart of x and y values.

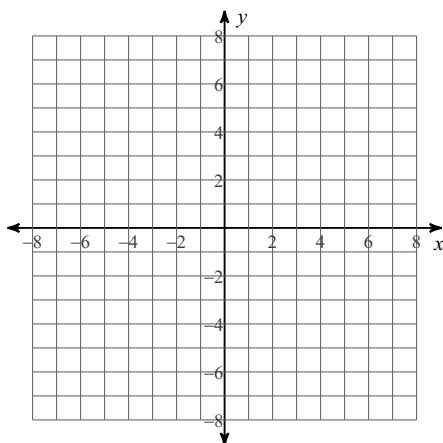
1) $y = \sqrt{x} - 2$



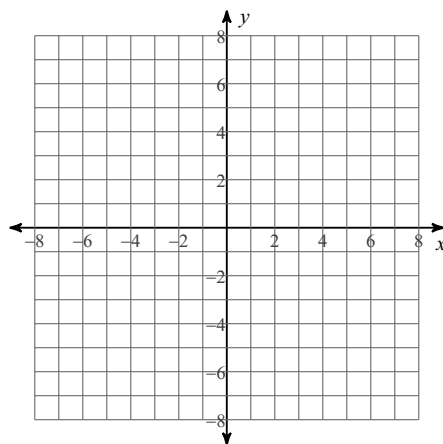
2) $y = \frac{1}{2}\sqrt{x} + 1$



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



4) $y = \frac{1}{2}\sqrt{x + 2} - 3$



Simplify.

5) $\sqrt{20}$

6) $\sqrt{125}$

7) $\sqrt{12k^2}$

8) $\sqrt{50x^4}$

9) $\sqrt{150n^3}$

10) $\sqrt{125x^3y^3}$

11) $\sqrt{18x^4y^2}$

12) $\frac{\sqrt{5}}{4\sqrt{2}}$

13) $\frac{2\sqrt{3}}{3\sqrt{5}}$

14) $\frac{2}{4\sqrt{2}}$

15) $-\sqrt{3} + 2\sqrt{3} - 2\sqrt{2}$

16) $-3\sqrt{2} + 3\sqrt{2} + 2\sqrt{8}$

17) $-3\sqrt{8} + 2\sqrt{3} - 3\sqrt{12}$

Solve each equation. Remember to check you solutions.

18) $12 = \sqrt{x} + 8$

19) $\sqrt{p+2} = 4$

20) $\sqrt{4k+3} = \sqrt{2k+3}$

21) $\sqrt{18-n} = \sqrt{28-2n}$

22) $\sqrt{30-b} = b$

23) $x = \sqrt{10x}$