**Algebra RH** **HW**

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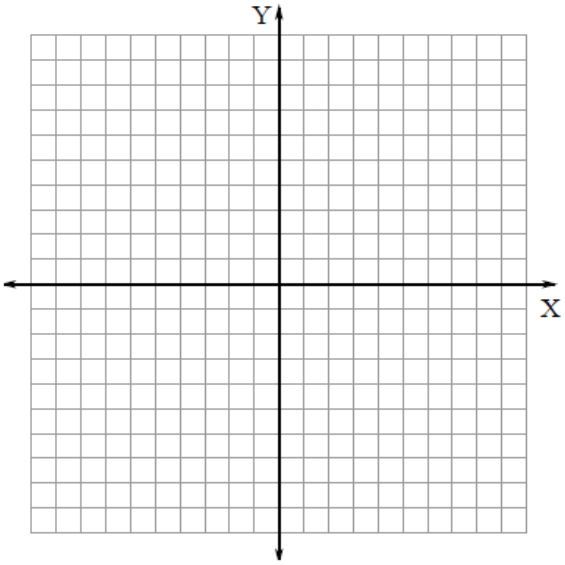
**Solve for *x* in each equation**

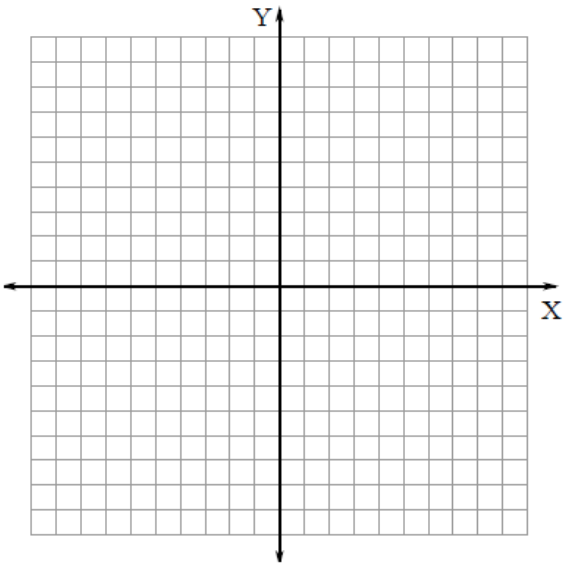
**1.** $\sqrt[3]{x} = 4$ **2.** $\frac{1}{4}\sqrt[3]{x-2} = 1$ **3.** $x^3 + 1 = -63$ **4.** $(x-5)^3 - 2 = 25$

**5.** Graph each cubic function and state the domain/range.

**a)** $y = (x+2)^3 - 1$

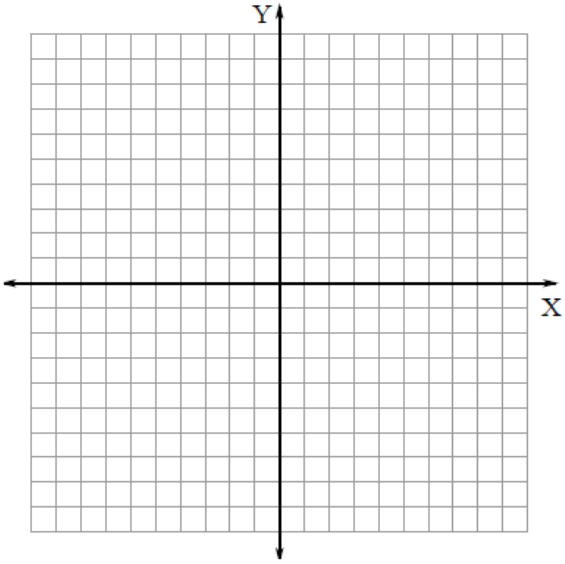



**b)** $y = -\frac{1}{2}x^3 + 2$



**6.** Graph each cube root function and state the domain/range.

**a)** $y = \sqrt[3]{x+2} - 4$




**b)** $y = -4\sqrt[3]{x} + 2$