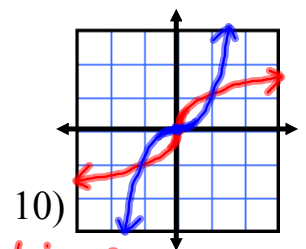
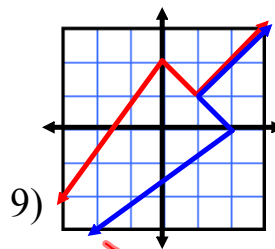
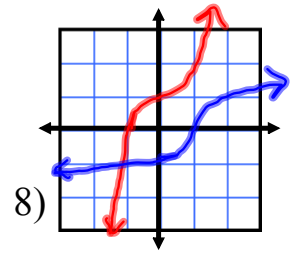
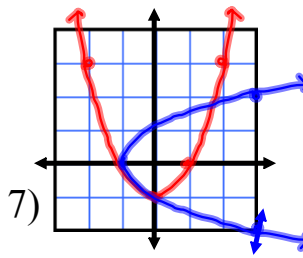


Algebra II

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1)	$\frac{5}{2}$	b)	-4	c)	$-\frac{3}{2}$	d)	$\frac{x-3}{2}$
2)	1	b)	$-\frac{11}{2}$	c)	-3	d)	$\frac{x}{2}-3$
3)	$\frac{3}{2}$	b)	1	c)	$\emptyset$	d)	$\frac{\sqrt{x}}{2}$
4)	4	b)	$2\sqrt{2}$	c)	$\frac{\sqrt{2x}}{2}$	d)	$\frac{x}{4}$
5)	3	b)	$\emptyset$	c)	$\sqrt{x-3}$	d)	$\sqrt[4]{x}$
6)	0	b)	$\sqrt[4]{3}-3$	c)	$\sqrt{x}-3$	d)	$x-6$



**\*) Not Functions** →

11)	$F'(x) = \frac{x+3}{2}$	15)	$g^{-1}(x) = \frac{8}{\sqrt[3]{x}}$	19)	$g^{-1}(x) = \frac{1}{2} \pm \sqrt{x+\frac{1}{4}}$ *
12)	$F^{-1}(x) = 3x-6$	16)	$g^{-1}(x) = \frac{x^2}{2}$	20)	$g^{-1}(x) = \sqrt[3]{x-2}$
13)	$F^{-1}(x) = \sqrt[3]{x}$	17)	$g^{-1}(x) = \pm \sqrt[4]{x}$ *	21)	$g^{-1}(x) = \pm x$ *
14)	$F^{-1}(x) = \frac{12}{x}$	18)	$g^{-1}(x) = \pm x$ *	22)	$g^{-1}(x) = \frac{\sqrt{x}-3}{2}$

$$3c) F(h(-4)) = \emptyset$$

$$h(-4) = \sqrt{-4} = 2i$$

$$11) F(x) = 2x - 3$$

$$y = 2x - 3$$

$$x = 2y - 3 \quad \text{inverse}$$

$$x + 3 = 2y$$

$$\frac{x+3}{2} = y$$

$$F^{-1}(x) = \frac{x+3}{2}$$

$$F(x) = \frac{x}{2}$$

$$g(x) =$$

$$h(x) = \sqrt{x}$$

$$5d) h(h(x)) =$$

$$h(\sqrt{x}) = \sqrt{\sqrt{x}}$$

$$= (x^{\frac{1}{2}})^{\frac{1}{2}} = x^{\frac{1}{4}}$$

$$\sqrt[4]{x}$$

$$15) \quad g(x) = \left(\frac{8}{x}\right)^3$$

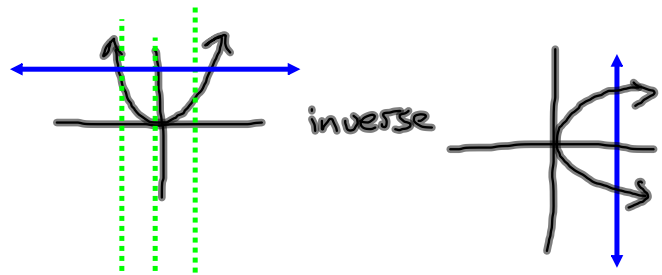
$$y = \left(\frac{8}{x}\right)^3$$

$$\sqrt[3]{x} = \sqrt[3]{\left(\frac{8}{y}\right)^3}$$

$$y \cdot \sqrt[3]{x} = \frac{8}{y} \cdot y$$

$$\frac{y \sqrt[3]{x}}{\sqrt[3]{x}} = \frac{8}{\sqrt[3]{x}}$$

$$y = \frac{8}{\sqrt[3]{x}}$$



$$18) \quad g(x) = |x|$$

$$y = |x|$$

$$x = |y|$$

$$\pm x = y$$

$$g^{-1}(x) = \pm x$$