

$$6. f(g(x)) = f(x-9)$$

$$= 9 + (x - 9)^3$$

$$= x$$

$$g(f(x)) = g(x^3 + 9)$$

$$= (x^3 + 9 - 9)$$

$$= x$$

$$15.$$

$$X = -8$$

$$X = 2/7$$

$$23$$

$$a) x^2 + 2x - 3$$

$$b) x^2 - 2x + 3$$

$$c) 2x^3 - 3x^2$$

$$d) \frac{1}{2}x + 3x / (4x - 6)$$

$$\text{Domain } \{x \mid x \geq 0\}$$