(5) Find the inverse algebrically:

$$f(x) = \sqrt[5]{2x+3}$$

(6) Are the following inverses?

$$f(x) = \frac{1}{2}x + 5 \qquad g(x) = 2x - 10$$

(7) X varies jointly with y^2 and inversely with the square root of z.

If $X = 4$ when $y = 3$ and $z = 9$.

Find X when $y = 3$ and $z = 1$