Name _____ Date _____

Inverses of Discrete Functions - Matching Worksheet

Write the letter of the answer that matches the problem.

_____ 1. If f(x) = 7x + 3, Find $f^{-1}(x)$

_____ 2. If f(x) = {(2, 1), (-4, 5). (14, -10)}. Find $f^{-1}(x)$

_____ 3. If f(x) = $\sqrt{x+3}$. Find $f^{-1}(x)$

_____ 4. If f(x) = 7x + 9, Find $f^{-1}(x)$

_____ 5. If f(x) = {(5, 6), (-6, 7), (10, -2)} Find $f^{-1}(x)$

_____ 6. If f(x) = $\sqrt{x+9}$, Find $f^{-1}(x)$

_____ 7. If f(x) = 8x + 5, Find $f^{-1}(x)$

_____ 8. If f(x) = {(2, 7), (3, -17), (11, -6)} Find $f^{-1}(x)$

_____ 9. If f(x) = $\sqrt{x+2}$ Find $f^{-1}(x)$

_____ 10. If f(x) = 22x + 8, Find $f^{-1}(x)$

a. f^{-1} = {(1, 2), (5, -4), (-10, 14),}

b. {(6, 5), (7, -6), (-2, 10),}

c. $f^{-1(x)} = x^2 - 9$

d. $f^{-1}(x) = \frac{x-5}{8}$

e. $f^{-1}(x) = x^2 - 2$

f. $f^{-1}(x) = \frac{x-8}{22}$

g. {(7, 2), (-17, 3), (-6, 11),}

h. $f^{-1}(x) = x^2 - 3$

i. $f^{-1}(x) = \frac{x-3}{7}$

j. $f^{-1}(x) = \frac{x-9}{7}$