

$$15. y = f^{-1}(x), x = f(y) = \begin{cases} 5/2 - y, & y < 2 \\ 1/y, & y \geq 2 \end{cases}, y = f^{-1}(x) = \begin{cases} 5/2 - x, & x > 1/2 \\ 1/x, & 0 < x \leq 1/2 \end{cases}$$

$$16. y = f^{-1}(x), x = f(y) = \begin{cases} 2y, & y \leq 0 \\ y^2, & y > 0 \end{cases}, y = f^{-1}(x) = \begin{cases} x/2, & x \leq 0 \\ \sqrt{x}, & x > 0 \end{cases}$$

$$17. y = f^{-1}(x), x = f(y) = (y+2)^2 \text{ for } y \geq 0, y = f^{-1}(x) = x^{1/2} - 2 \text{ for } x \geq 16.$$

$$18. y = f^{-1}(x), x = f(y) = \sqrt{y+3} \text{ for } y \geq -3, y = f^{-1}(x) = x^2 - 3 \text{ for } x \geq 0.$$

$$19. y = f^{-1}(x), x = f(y) = -\sqrt{3-2y} \text{ for } y \leq 3/2, y = f^{-1}(x) = (3-x^2)/2 \text{ for } x \leq 0.$$

$$20. y = f^{-1}(x), x = f(y) = y - 5y^2 \text{ for } y \geq 1, y = f^{-1}(x) = (1 + \sqrt{1-20x})/10 \text{ for } x \leq -4.$$

$$21. y = f^{-1}(x), x = f(y) = ay^2 + by + c, ay^2 + by + c - x = 0, \text{ use the quadratic formula to get } y = \frac{-b \pm \sqrt{b^2 - 4a(c-x)}}{2a};$$

$$(a) f^{-1}(x) = \frac{-b + \sqrt{b^2 - 4a(c-x)}}{2a}$$

$$(b) f^{-1}(x) = \frac{-b - \sqrt{b^2 - 4a(c-x)}}{2a}$$

$$22. (a) C = \frac{5}{9}(F - 32).$$

(b) How many degrees Celsius given the Fahrenheit temperature.

(c)  $C = -273.15^\circ \text{ C}$  is equivalent to  $F = -459.67^\circ \text{ F}$ , so the domain is  $F \geq -459.67$ , the range is  $C \geq -273.15$ .

$$23. (a) y = f(x) = \frac{10^4}{6.214}x, \quad (b) x = f^{-1}(y) = (6.214 \times 10^{-4})y.$$

(c) How many miles in  $y$  meters.

$$24. (a) f(g(x)) = f(\sqrt{x}) = (\sqrt{x})^2 = x, x > 1; g(f(x)) = g(x^2) = \sqrt{x^2} = x, x > 1.$$



(c) No, because it is not true that  $f(g(x)) = x$  for every  $x$  in the domain of  $g$  (the domain of  $g$  is  $x \geq 0$ ).

$$25. (a) f(f(x)) = \frac{3 - \frac{3-x}{1-x}}{1 - \frac{3-x}{1-x}} = \frac{3 - 3x - 3 + x}{1 - x - 3 + x} = x \text{ so } f = f^{-1}.$$

(b) It is symmetric about the line  $y = x$ .

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