Problem 1 (Circle a letter). The inverse of the function $y = mx + b$ is

(a) $y = -\frac{1}{m}x + b$

(b) $y = \frac{1}{m}x - \frac{b}{m}$

(c) $y = mx - b$

(d) $y = \frac{1}{m}x + \frac{1}{b}$

Problem 2 (Circle a letter). The inverse of the function $y = \frac{x-a}{x-b}$ is

(a) $y = \frac{x-a}{x-b}$

(c) $y = \frac{bx+a}{ax+b}$

(d) $y = \frac{bx-a}{x-1}$

(b) $y = \frac{x+b}{x+a}$

Problem 3. Find x in each case.

(a) $27^{2/3} = x$

(b) $x^{3/2} = 125$

(c) $32^x = 8$

(d) $\log_5 25 = x$

(e) $\log_x 81 = \frac{4}{3}$

(f) $\log_7 x = -2$