

Name: _____ Show work needed to justify your answer. Date: _____

HW # 32a: Algebra 1 - Standard 20 - Inverses of Linear Functions

5 points

Find the inverse of each function.

16. $f(x) = 8x - 5$

17. $f(x) = 6(x + 7)$

18. $f(x) = \frac{3}{4}x + 9$

20. $f(x) = \frac{3x + 5}{4}$

-
- 24. SEASON PASS** A season pass to an amusement park costs \$70 per family member plus an additional \$50 fee for parking. The function $C(x) = 70x + 50$ represents the total cost of the season pass for a family, where x is the number of family members on the season pass.
- Find the inverse function, $C^{-1}(x)$.
 - What do x and $C^{-1}(x)$ represent in the context of the inverse function?
 - How many family members purchased a season pass to the amusement park if the total charge was \$470?