3. [8 points] A local clothing store *Amaizing T-Shirts* sets the price per t-shirt based on how many t-shirts a customer purchases. Let $P(s)$ be the **price per t-shirt**, in dollars, when a customer purchases s t-shirts. Note that $P(s)$ is an invertible function.

   a. [2 points] Describe the meaning of $P^{-1}(10)$ in the context of the problem.

   b. [2 points] Write expression for the **total price** for 156 t-shirts. Your answer may involve P and/or P^{-1}.

Answer: $ \underline{\hspace{3cm}}$

   c. [4 points] *Amaizing T-Shirts* offers a customer loyalty program. When a customer buys s t-shirts, they get $L(s)$ loyalty points. Describe the meaning of the following equations or explain why they don't make sense in context:

$L(100) = 10$

$P(L^{-1}(20)) = 9$