

162. A loss, X , follows a 2-parameter Pareto distribution with $\alpha = 2$ and unspecified parameter θ . You are given:

$$E[X - 100 | X > 100] = \frac{5}{3} E[X - 50 | X > 50]$$

Calculate $E[X - 150 | X > 150]$.

- (A) 150
- (B) 175
- (C) 200
- (D) 225
- (E) 250