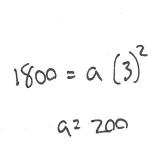
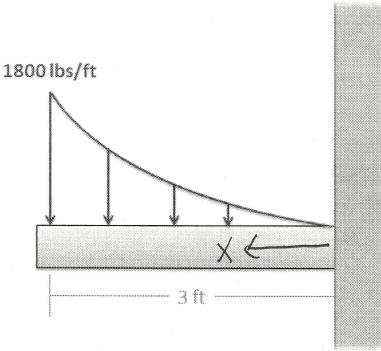
## Question 2:

Determine the magnitude and the point of application for the equivalent point load of the distributed force shown below.







$$X_{eq} = \frac{S_0^3 (200 x^2)(x) dx}{F_{eq}}$$

$$\frac{S_0^3 200 x^3 dx}{J_0^3 50 x^4}$$

$$\frac{J_0^3 50 x^4}{500}$$

$$\frac{4050}{1800}$$

