Quiz #10

| Name: | Key | * |
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You must show your work to get full credit.

1. The weight, W, in pounds of a tree is a function of its height, H, in feet. That it W = f(H). If f(25) = 2,000, and f'(25) = 100

(a) What are the units of 2,000?

(b) What are the units of 100?

Units are 165 (pounds)

Units are 165/p+ (Paunds/fost)

2. If g(x) is a function with g(10) = 23 and g'(10) = 1.5 then estimate g(12).

 $g(12) \approx 26$

3(12) = 3(10) + 3'(10) 0x = 23 + 1.5 (12-10) = 23+1.5(2) = 26