

21) evaluate each function as indicated:-

$$w(x, y, z) = \frac{x^2 + 4yz}{xyz}, \text{ find } w(1, 3, 1)$$

$x=1, y=3, z=1$

$$\rightarrow w(1, 3, 1) = \frac{1^2 + 4(3)(1)}{1(3)(1)}$$

$$= \frac{1 + 12}{3} = \boxed{\frac{13}{3}}$$

23)  $S = f(P, t) = P e^{0.06t}$

Find  $f(2000, 20)$ , and interpret your result.

$$\rightarrow f(2000, 20) = 2000 e^{0.06(20)}$$

~~2000 e^{1.2}~~

$$= 2000 e^{1.2}$$

$$= 6640.23$$

the future value that results when \$2000 is invested for 20 years continuously.