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Reading Quiz #1

1. 
$$a(\vec{B}+\vec{c}) = a\vec{B} + a\vec{c}$$
 $\vec{B} = B \times \hat{c} + B + a\vec{c}$ 
 $\vec{B} = B \times \hat{c} + B + a\vec{c}$ 
 $\vec{B} + \vec{c} = B \times \hat{c} + C \times \hat{c} + B + \vec{c} + C + \vec{c}$ 
 $a(\vec{B}+\vec{c}) = a(B \times \hat{c} + C \times \hat{c} + B \times \hat{c} + C \times \hat{c})$ 
 $= a(\vec{B}+\vec{c})$ 
 $= a(\vec{B}+\vec{c})$ 
 $= a(\vec{B}+\vec{c})$ 

2. 
$$V(f(x,y) + \sqrt{3}g(x,y))$$

(E this makes a scalar to and you con't add a scalar to a scalar to

a) 
$$V = \times C + 7 \int x^2 + 7$$

Y=1001(8) Y=1517(8) + (+) = < co)(+), sn(+) > - 05 t 5 7 x 12 (x, y) F (x(1), 7(9)) = ((0)(+), sin(+)) V'= (-sin(+), cos(+)> > F(x(+), y(+)) · v' d ·  $= \int_{0}^{\pi} (\cos(t)(-\sin(t)) + (\sin(t)(\cos(t))) dt$   $= \int_{0}^{\pi} (\cos(t)(-\sin(t)) + (\sin(t)(\cos(t))) dt$   $= \int_{0}^{\pi} (0) dt = 0$ yes because for ever point in the -x,-y -ill cancel the original point V= (2x+1) &+ (3y-x) } · (0) (450)=5:- (410) x= x(0) 0 - y)in 0 y'= x(in 0 + y(0) 0 二度 V= (2x+1)= - (3x-x)= 2 + 1/2 (2x+1) + (3y-x) /2 9

c) 
$$\forall z \mid y = 1$$

$$|\vec{y}| = |\vec{y}| = |\vec$$

$$\frac{4}{(x)} * g(x) = \left(\frac{f(x) - g(x)}{(x)}\right) \\
= \left(\frac{f(x) + g(x)}{(x)}\right) \\
= \left(\frac{f(x) - g(x)}{(x)}\right) \\
= \left(\frac{f(x)$$

• 
$$f(x) = \cosh(x)$$
  $g(x) = \sinh(x)$   
=  $\cosh(0) \cdot \sinh(0)$   
= 0

• 
$$f(x) = a + ax + ax^{2} + ...$$
  
 $f(0) = a$   $g(0) = b$   $g(x) = b + bx + bx + f.$   
 $= a + b$