Suppose u and v are differentiable functions of x. Use the given values of the functions and their derivatives to find the value of the indicated derivative.

10)
$$u(2) = 10$$
, $u'(2) = 2$, $v(2) = -3$, $v'(2) = -5$.
 $\frac{d}{dx} \left(\frac{v}{u} \right)$ at $x = 2$

$$\frac{u\sqrt{-vu'} - (10)c-s_{10} - (-3)(2)}{u^{2}}$$

$$= -50 + 6 = -44$$

$$= -44$$

$$= -44$$

$$= -44$$

$$= -44$$

$$= -44$$

$$= -44$$

The figure shows the velocity v of a body moving along a coordinate line as a function of time t . Use the figure to answer the question.

1 t (sec) t (sec) 5 10 pe

When is the body's acceleration equal to zero?

Solve the problem.	
12) At time t, the position of a body moving along the s-axis body's acceleration each time the velocity is zero.	is $s = t^3 - 15t^2 + 72t \text{ m}$ Find the 12)
Por	Arion.
acceteration =7	13,512,004
	5=+3-15+2+72+
change of velocity	
Jelos	ب ر بر
Jelo	-: 2 3 0 4 7 7 5 V
2	1/=34-504,12
3+-30+7/2-3	
5 = = 5	1=6t-30
= > / ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	1=6t-30=6
3 2 10x +24=0 3=V	((()))
42-10c (1)=0	0 - 20 = -
(2-10)(4-4)=0 $(4-6)(4-4)=0$	6(4)-30=_6
(t-b) (1=4)	Q
(t = 6) (t ->)	