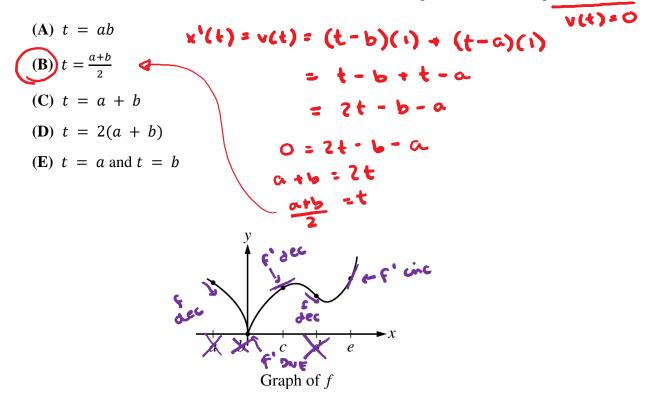
## Velocity and Other Rate of Change (AP Questions)

1. A particle moves along the x-axis with its position at time t given by x(t) = (t - a)(t - b), where a and b are constants and  $a \neq b$ . For which of the following values of t is the particle at rest?



2. The graph of the function f is shown in the figure above. For which of the following values of x is f'(x) positive and increasing?

At a fine → f'ine → stopes of f getting steeper
At a f'co @ x=a We f dae @ x=a
At b f' DNE @ x=b We Lim\_f'(x) ≠ lim\_f'(x)
At c f' dec @ x=c b/c stopes of f an optting less steep
(E) e f'co @ x=d b/c f dec @ x=d
At a f' dec @ x=e b/c stopes of f an optting steeper
At a f' ine @ k=e b/c stopes of f an optting steeper
At a f' ine @ k=e b/c stopes of f an optting steeper
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