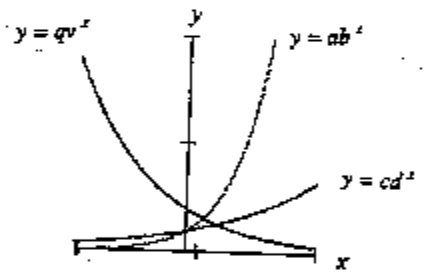
1.) (2 pts each) **True / False**--Circle your choice. Circle T only if the statement is always true. [No explanation necessary.]

(a)	$\ln(AB) = (\ln A)(\ln B)$	T	(F)
(b)	$\ln e^{2t+1} = 2t-1$	(T)	F
(c)	$\sin(3a) = 3\sin(a)$	T	(F)
(d)	As $x \to \infty$, x^{100} dominates 1.001^x	T	(F)
(e)	$\log(10A) = \log A + 1 \quad (A > 0)$	(T)	F
(f)	A 5th degree polynomial must have at least one real zero.	(T)	F

2.) (5 pts–No explanation necessary.) The graphs of three functions are given in the figure below.



Complete each of the statements below by using the symbols $>$, $<$, or $=$.

$a \underline{<} q$ $\qquad a \underline{=} c$ $\qquad b \underline{>} d$ $\qquad d \underline{>} v$

Which, if any, of the parameters $a,b,c,d,q,,v$ are greater than zero?

all