42.  $\sin^2 t \cdot \cos t$  is positive in quadrant IV because  $\sin^2 t$  is always positive and  $\cos t$  is positive in quadrant IV.

48. quadrant II

44.  $\cos t \cdot \sec t$  is positive in any quadrant, since  $\cos t \cdot \sec t = \cos t \cdot \frac{1}{\cos t} = 1$ , provided  $\cos t \neq 0$ .

quadrant III