$f'(x) = \frac{3}{2}x^2 - 2x + 3$ f''(x) = 3x - 2

(a) 
$$d = -20.444t^3 + 152.33t^2 - 266.6t + 1162$$
,  $0 \le t \le 5$ 

$$d' = -61.332t^2 + 304.66t + 266.6$$

$$d'' = -122.664t + 304.66 \stackrel{\text{set}}{=} 0 \qquad for 2000 - 2005$$

$$d'' = -122.664t = 304.66$$

$$d'' = -2.4837$$

Intervals
$$d' = -2.4837$$

$$d'' = -61.332t^2 + 304.66$$

$$d'' $$d'' = -61.332t^2$$