Appendix K.2: Additional Problems

- 1. Find the equations of the tangents to the curve that pass through the point (17, 22).
 - $\begin{aligned} x &= 4t^2 + 1\\ y &= 3t^3 2 \end{aligned}$
- 2. Use the parametric function to answer these questions.

$$\begin{aligned} x(t) &= t^2 - 3t - 4 \\ y(t) &= t^3 - 4t^2 + 12t \end{aligned}$$

- (a) Find the point(s) where the tangent lines are horizontal.
- (b) Find the point(s) where the tangent lines are vertical.

(c) find
$$\left. \frac{dy}{dx} \right|_{(-6,16)} =$$