

Name: _____

Section: _____

You have 10 minutes to complete the following problems, without using your notes, book, or calculator.

1. Suppose $h(-3) = 5$ and $h'(-3) = 4$. What is the tangent line to the graph of $h(x)$ at $x = -3$?

2. Differentiate.

(a) $\frac{d}{dt}(\sqrt[5]{t} + \sqrt[5]{7}) =$

(b) $\frac{d}{dx} x^{2/3}(x + 7) =$

(c) $\frac{d}{dx} x(x + 7)^{11} =$

(d) $\frac{d}{du} \frac{4u}{3u - 7} =$

(e) $\frac{d}{dx} \sqrt{x^3 + x} =$