- 1. If you approximate $\sqrt{26}$ using a linearization for the function $f(x) = \sqrt{x}$, which of the following approximations do you end up with?
- (A) $\sqrt{26} \approx 5$
- (B) $\sqrt{26} \approx 5.1$
- (C) $\sqrt{26} \approx 5.2$
- (D) None of the above

2. True or False?

If we approximate ln(0.97) using a linearization for the function f(x) = ln(x), we end up overestimating the true value of ln(0.97).

3. True or False?

The point (2,1) is on the depicted curve

$$y^3 + 3xy = 7.$$

Then the *y*-coordinate of the point on the curve where x = 2.1 is between 2.9/3 and 1.

