1. Find an equation of the line tangent to the graph of

\[ x^3 + y^3 = y + 21 \]

at the point (3, -2).

2. A ladder 13 feet long rests against a vertical wall and is sliding down the wall at the rate of 3 feet per second at the instant the foot of the ladder is 5 feet from the base of the wall. At this instant, how fast is the foot of the ladder moving away from the wall?

You must include correct units as part of your answer.