

59. Yes. If $f(x) = m_1x + b_1$ and $g(x) = m_2x + b_2$, then
 $(f \circ g)(x) = f(m_2x + b_2) = m_1(m_2x + b_2) + b_1 = m_1m_2x + m_1b_2 + b_1$, which is a linear
function, because it is of the form $y = mx + b$. The slope is m_1m_2 .