1. Graph the function $y = 2^{x-2} + 3$ by shifting $y = 2^x$. Find all its asymptotes and the point at which this function intercepts y-axis.

2. Evaluate $\tan(\arccos(\frac{-2}{3}))$. hint: Draw a right triangle and find the requested trigonometric function. Pay extra attention to the trigonometric quadrant this angle belongs!

Quiz 2 Name

3. Find x in the following equation.

$$e^{2x} + 2e^x - 35 = 0 (1)$$

hint: Substitute $u=e^x$ and solve the quadratic equation for u. Then Find x. One answer is not acceptable. explain why!