Find equation of the line passing through point (3,-2) and perpendicular to the line \( 6y - 3x + 2 = 0 \).

Find the value of \( m \) for which the lines \( mx + 3y = -3 \) and \( 2x + (m+1)y = 2 \) are parallels.

Find all real values of \( x \) such that \( f(x) = 0 \).

\[
f(x) = x^3 - x^2 - 4x + 4
\]
Hint: You need first to factor above expression in an appropriate way.

For what value of m the set of ordered pairs define a function.

\{(2, 3), (-1, 4), (3, -5), (2m - 4, 3), (1, 7)\}  \hspace{1cm} (2)

Find the domain of function \(f(x)\).

\[ f(x) = \frac{\sqrt{|2x - 1|}}{x^2 + x + 1} \]  \hspace{1cm} (3)

Hint: This is a tricky question be careful!