King Fahd University of Petroleum & Minerals
Faculty of Science
Math P-Y, Math 001, Quiz # 13

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1) Use the given zero to find the remaining zeros of $f(x) = x^4 + 3x^3 - 5x^2 - 21x + 22$, $-3 + \sqrt{2}i$

2) Find a polynomial with real coefficients with zeros $3, 1 \& -1 - 3i$ & $f(2) = -36$

3) Sketch the graph of the following functions, show appropriate asymptotes, x- & y-intercepts & some points:

a) $f(x) = \dfrac{1 - 3x}{1 - x}$

b) $f(x) = -\dfrac{x}{x^2 - 9}$

c) $f(x) = \dfrac{x^2 - x - 2}{x - 1}$

d) $f(x) = \dfrac{x^2}{x^2 + 1}$