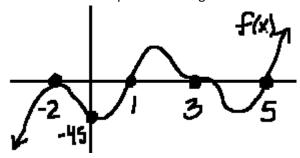
\mathbf{X}

1A) Write the least degree polynomial function in factored form for the graph shown. Include leading coefficient A and state whether A is positive or negative.



1B) Find the value of A & write the exact equation of this graph.

1C) On what interval(s) is $f(x) \ge 0$?

2) Given $f(x) = \frac{(x+4)^2(x)}{(x-7)^3(x+1)}$, state the interval(s) for which $f(x) \ge 0$.

3A) Given $f(x) = \frac{4x - 21}{x - 5}$, re-express the function as $f(x) = Quotient + \frac{Remainder}{Divisor}$

3B) Identify

, ,	
НА	y-intercept
VA	x-intercept

3C) Sketch a graph and label information from 3b).