This quiz is worth 10 points and you have 10 minutes to complete it. Show all work and circle your final answers.

Calculators are NOT allowed today.

1. (*0 pts*) Sketch a careful, labeled graph of $f(x) = x^{\frac{3}{2}}(x-3)$.

(SHOW ALL WORK, including number lines for f, f', and f'', but don't worry about calculating any limits for this problem. The coordinates of every root, extrema, and inflection point should be clearly labeled on your graph. It should be very clear where your graph is positive/negative, increasing/decreasing, and concave up/down. Don't make your graph too small.)