3b

$$P_3(x) \approx 0.8455x^3 - 1.06x^2 + 1.9331x + 2.7183$$

MY P_n FOR LAGRANGE FORM & NEWTON AREN'T EQUAL SO AT LEAST ONE IS INCORRECT.

3c

ASSUMING MY NEWTON'S FORM $P_3(x)$ IS CORRECT...

$P_3(1.5) = 6.0865$ $\quad e^{1.5} \approx 4.482$

VS.

$P_3(4) = 47.603$ $\quad e^4 \approx 54.598$

$P_3(1.5)$ IS THE MORE ACCURATE APPROXIMATION IN TERMS OF ABSOLUTE ERROR, BUT $P_3(4)$ IS MORE ACCURATE IN TERMS OF RELATIVE ERROR.