Find

I. the intervals of monotonicity and extreme points,

II. the intervals of concavity and inflection points:

1) $f\left(x\right)=2x^{3}-27x^{2}+120x-2$ ;

2) $f\left(x\right)=e^{-\frac{(x-1)^{2}}{2}}$;

3) $f\left(x\right)=ln⁡(\left(x-1\right)^{2}+1)$;

4) $f\left(x\right)=\frac{x}{2}+\frac{2}{x}$;

5) $f\left(x\right)=xe^{-\frac{x}{2}}$.