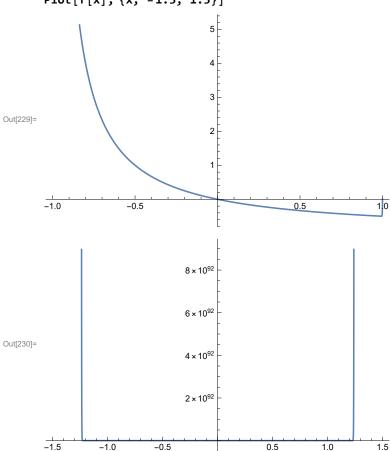
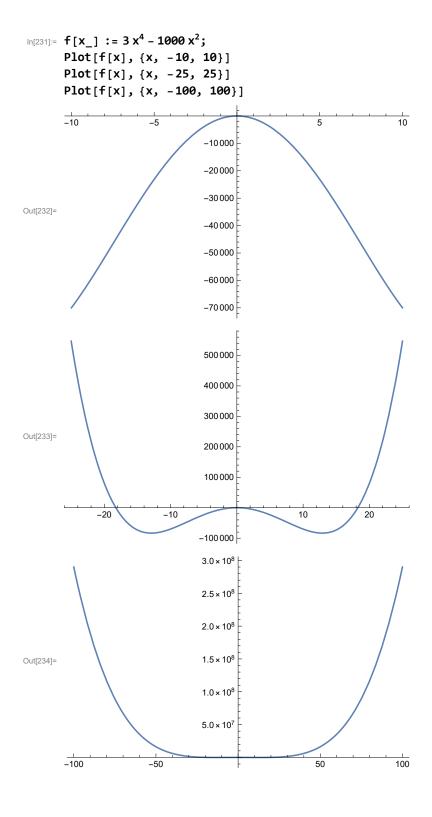
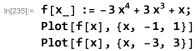
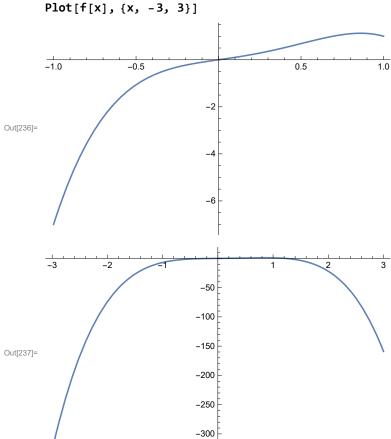
$$ln[228]:= f[x_] := \sum_{n=1}^{1000} (-1)^n x^n;$$

Plot[f[x], {x, -1, 1}] Plot[f[x], {x, -1.5, 1.5}]

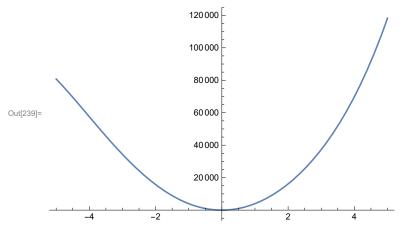


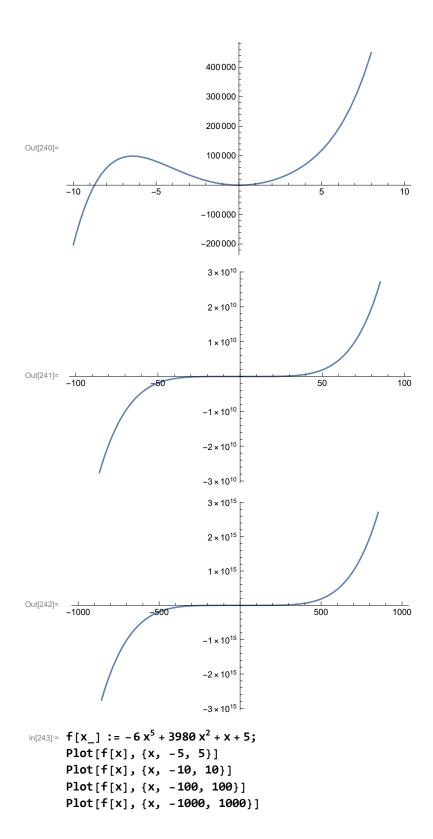


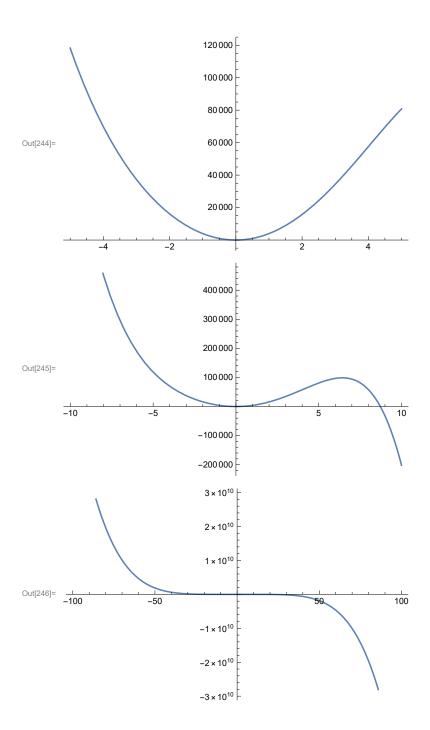


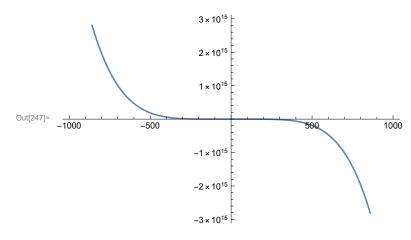


In[238]:= 
$$f[x_{-}] := 6 x^{5} + 3980 x^{2} + x + 5;$$
  
Plot[f[x], {x, -5, 5}]  
Plot[f[x], {x, -10, 10}]  
Plot[f[x], {x, -100, 100}]  
Plot[f[x], {x, -1000, 1000}]

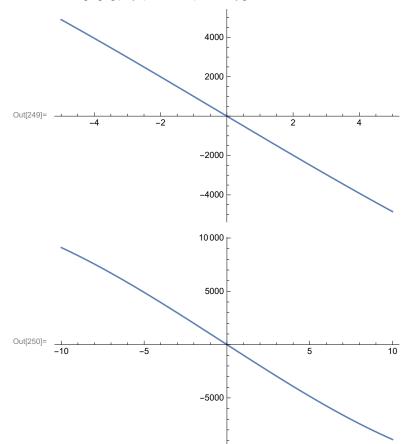


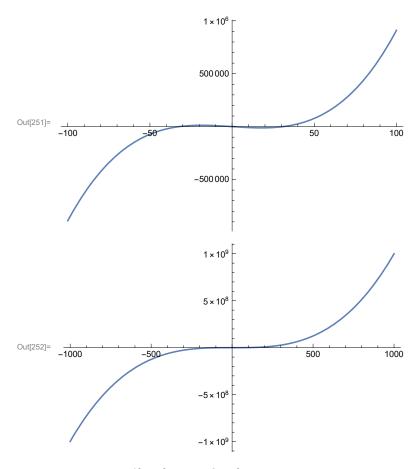


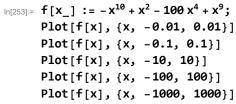


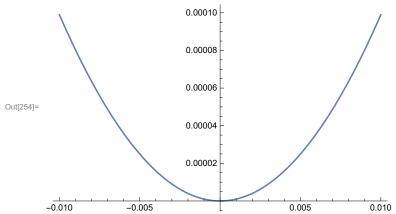


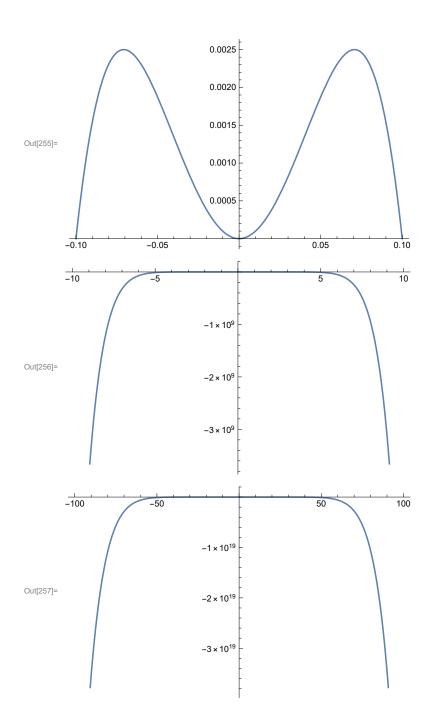
 $\begin{array}{ll} \ln[248] = & f[x_{\_}] := x^3 + x^2 - 1000 \, x + 1; \\ & & Plot[f[x], \{x, -5, 5\}] \\ & & Plot[f[x], \{x, -10, 10\}] \\ & & Plot[f[x], \{x, -100, 100\}] \\ & & Plot[f[x], \{x, -1000, 1000\}] \end{array}$ 

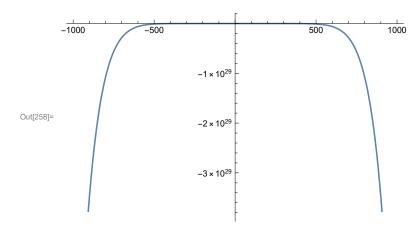












```
ln[259]:= f[x_] := x^3 + x^4 - 1000 x + 1;
     Plot[f[x], \{x, -0.01, 0.01\}]
     Plot[f[x], {x, -0.1, 0.1}]
     Plot[f[x], {x, -10, 10}]
     Plot[f[x], \{x, -20, 20\}]
     Plot[f[x], {x, -100, 100}]
     Plot[f[x], {x, -1000, 1000}]
```

