In[2]:=

```
Solve[x^3 + 4 x^2 - 3 x + 8 == 0, x]
```

Out[2]=

$$\left\{\left\{x \to -\frac{4}{3} - \frac{25}{3\left(226 - 3\sqrt{3939}\right)^{1/3}} - \frac{1}{3}\left(226 - 3\sqrt{3939}\right)^{1/3}\right\},\right.$$

$$\left\{x \to -\frac{4}{3} + \frac{25\left(1 + i\sqrt{3}\right)}{6\left(226 - 3\sqrt{3939}\right)^{1/3}} + \frac{1}{6}\left(1 - i\sqrt{3}\right)\left(226 - 3\sqrt{3939}\right)^{1/3}\right\},$$

$$\left.\left\{x \to -\frac{4}{3} + \frac{25\left(1 - i\sqrt{3}\right)}{6\left(226 - 3\sqrt{3939}\right)^{1/3}} + \frac{1}{6}\left(1 + i\sqrt{3}\right)\left(226 - 3\sqrt{3939}\right)^{1/3}\right\}\right\}$$

In[3]:=

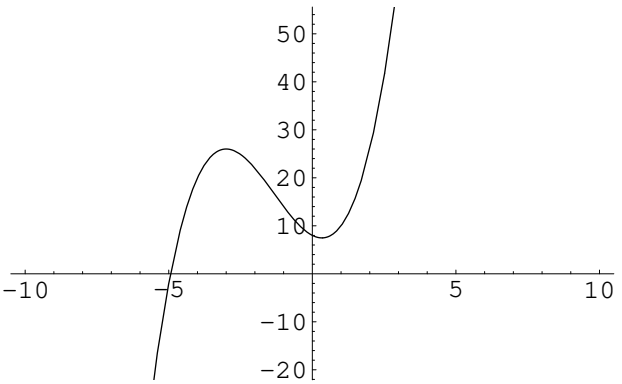
```
NSolve[x^3 + 4 x^2 - 3 x + 8 == 0, x]
```

Out[3]=

```
{{x → -4.9361}, {x → 0.468052 - 1.18391 i}, {x → 0.468052 + 1.18391 i}}
```

In[5]:=

```
Plot[x^3 + 4 x^2 - 3 x + 8, {x, -10, 10}]
```



Out[5]=

```
- Graphics -
```