

```
> # Graphs of Solutions of Airy's Equation
y''-xy=0.
```

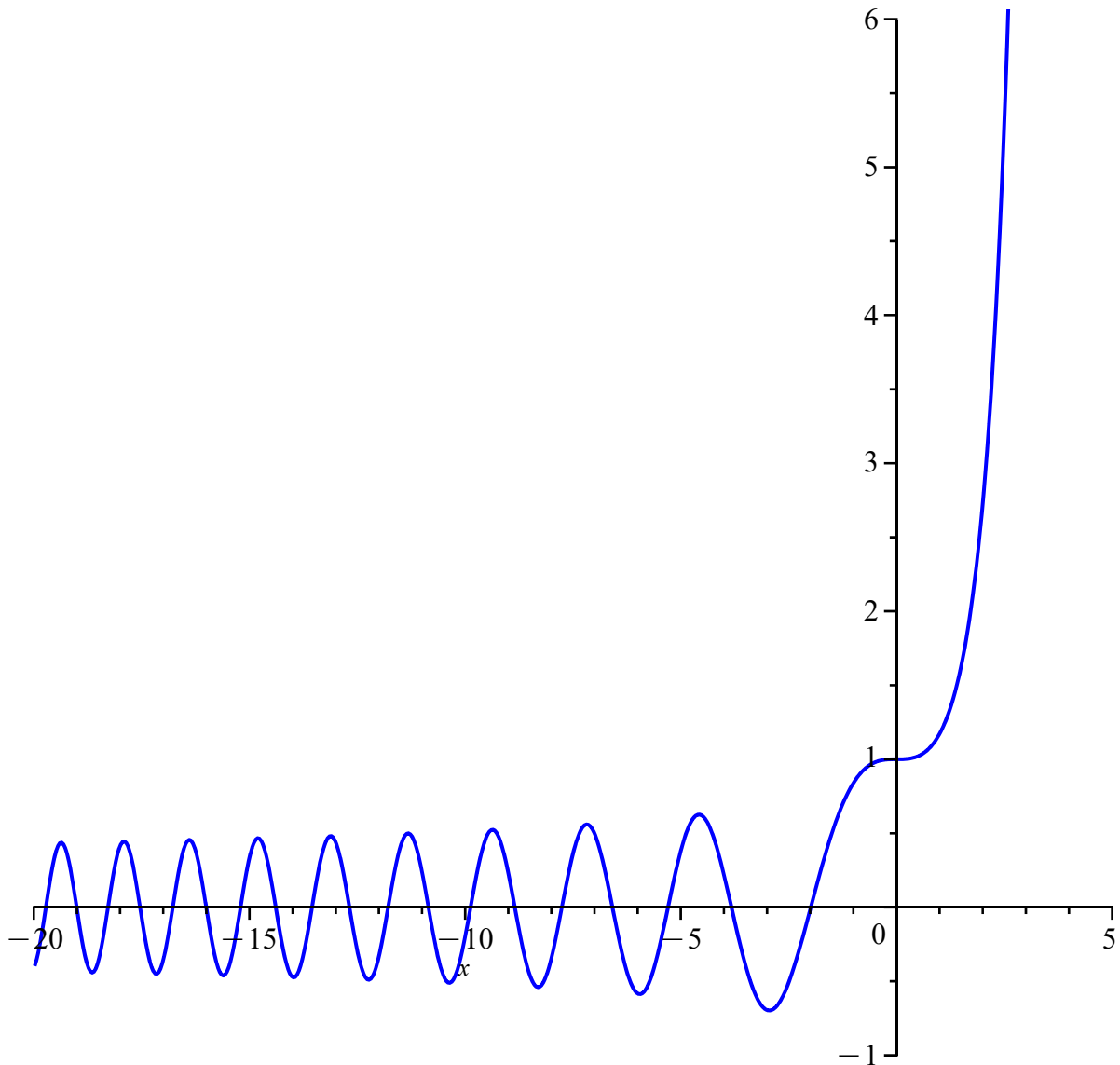
```
> y1:=x->1+sum(1/product((3*i-1)*(3*i),i=1..k)*x^(3*k),k=1..
infinity);
```

$$y1 := x \mapsto 1 + \left(\sum_{k=1}^{\infty} \frac{x^{3 \cdot k}}{\prod_{i=1}^k 3 \cdot (3 \cdot i - 1) \cdot i} \right)$$

(1)

```
> plot(y1(x),x=-20..5,color=blue,title="Graph of y1",titlefont=
["Arial",16,Bold],size=[600,600]);
```

Graph of y1



```
> y2:=x->x+sum(1/product((3*i)*(3*i+1),i=1..k)*x^(3*k+1),k=1..infinity);
```

$$y2 := x \mapsto x + \left(\sum_{k=1}^{\infty} \frac{x^{3 \cdot k + 1}}{\prod_{i=1}^k 3 \cdot i \cdot (3 \cdot i + 1)} \right)$$

(2)

```
> plot(y2(x),x=-20..5,color=red,title="Graph of y2",titlefont=
["Arial",16,Bold],size=[600,600]);
```

Graph of y2

