2) 
$$X^{\lambda}Y''+(6x+X^{\lambda})Y'+XY=0$$

$$Y''+(6x+X^{\lambda})Y'+XY=0$$

$$Y''(x)=x(\frac{6x+X^{\lambda}}{X^{\lambda}})Y(x)=x'(\frac{x}{X^{\lambda}})$$

$$Y''+(6x+X^{\lambda})Y'+XY=0$$

$$Y''+(6x+X^{\lambda})Y'$$

So, we can't proceed to set up our indicial equation, or find its R-values.

Therefore, there is no Frobenius Solution.

3) 
$$\times^{\lambda} \times'' - \times \times' + y = 0$$

$$\frac{-y_1 + y_1 \times + y_2 \times + y_3 \times + y_4 \times + y_4 \times + y_5 \times + y_4 \times + y_5 \times + y_4 \times + y_5 \times$$

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