TRACICIO 22 - 6y" + 12y'-8y=0 y = erx y' = rerx y'' = rerx y'' = rerx 136x-65265x+1256

$$\Gamma^{4}e^{\Gamma \times} - 2\Gamma^{2}e^{\Gamma \times} + e^{\Gamma \times} = 0$$
 $e^{\Gamma \times} (\Gamma^{4} - 2\Gamma^{2} + 1) = 0$
 $\Gamma^{4} - 2\Gamma^{2} + 1 = 0$
 $\Gamma^{2} - 1\Gamma^{2} = 0$

$$r^{4}e^{1} - 7r^{2}e^{1} - 18e^{1} = 0$$
 $e^{r}(r^{4} - 7r^{2} - 18) = 0$
 $r^{4} - 7r^{2} - 18 = 0$
 $(r-3)(r^{3} + 3r^{2} + 2r + 6) = 0$
 $(r-3)(r+3)(r^{2} + 2) = 0$

$$r-3=0 = 7 r=3$$

 $r+3=0 = 7 r=-3$
 $r^2+2=0 = 7 r=\pm \sqrt{-2}=\pm \sqrt{2}$