

#Jenny



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Cool! I'am really happy

#Markus Jensen



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My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

Math 2243 - Spring 2006 Final Exam  
Answer Key

1. the Wronskian is  $W = -24 \neq 0$ , so the functions are linearly independent

2.  $y' = 7 + \frac{C}{y^2}$

3. a)  $\theta_1 = \theta_2$ ; b)  $y'' - 8y' + 14y = 0$

4.  $f'' = \frac{1}{x^2 - 2x + 6}$

5.  $f(x) = 90 - 15 \cdot \left(\frac{x}{3}\right)^2$  or  $90 - 15 \cdot e^{x \cdot 0.033}$ ;  $\forall \mathbb{R}$

6. for  $\lambda = -1$ : eigenvectors are  $\begin{bmatrix} 1 \\ -1 \\ 0 \end{bmatrix}$  and  $\begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix}$  [two-dimensional eigenspace];

for  $\lambda = 2$ : eigenvectors is  $\begin{bmatrix} 1 \\ 1 \\ 0 \end{bmatrix}$  [one-dimensional eigenspace];

7. kernel:  $\begin{bmatrix} 1 \\ -1 \\ 1 \end{bmatrix}$ ; image:  $\begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} = (x_2 + 2x_3) \begin{bmatrix} 0 \\ 1 \\ 0 \end{bmatrix}$ ;

rank(T) = 1; nullity(T) = 2

8.  $A^{10} = \begin{bmatrix} 4x + 1 \\ -4x \end{bmatrix} e^{10}$

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**Geometry Final Exam Spring Answer Key**