# CHAPTER 15

# Differential Equations

#### 15.1 Concepts Review

1. 
$$r^2 + a_1 r + a_2 = 0$$
; complex conjugate roots

2. 
$$C_1e^{-x} + C_2e^x$$

3. 
$$(C_1 + C_2 x)e^{x}$$

4. 
$$C_1 \cos x + C_2 \sin x$$

#### Problem Set 15.1

3. Auxiliary equation: 
$$r^2 + 6r - 7 = 0$$
,  $(r + 7)(r - 1) = 0$  has roots  $-7$ , 1. General solution:  $y = C_1e^{-7x} + C_2e^x$   $y' = -7C_1e^{-7x} + C_2e^x$  If  $x = 0$ ,  $y = 0$ ,  $y' = 4$ , then  $0 = C_1 + C_2$  and  $4 = -7C_1 + C_2$ , so  $C_1 = -\frac{1}{2}$  and  $C_2 = \frac{1}{2}$ . Therefore,  $y = \frac{e^x - e^{-7x}}{2}$ .

4. Roots are 
$$-2$$
 and 5. General solution is  $y = C_1e^{-2x} + C_2e^{5x}$ . Particular solution is  $y = \left(\frac{12}{7}\right)e^{5x} - \left(\frac{5}{7}\right)e^{-2x}$ .

8. Roots are 
$$-3 \pm \sqrt{11}$$
. General solution is   

$$y = e^{-3x} \left( C_1 e^{\sqrt{11}x} + C_2 e^{-\sqrt{11}x} \right).$$

$$y = 3$$
, then  $3 = C_2$ .  
Therefore,  $y = 2\cos 2x + 3\sin 2x$ .

12. Auxiliary equation: 
$$r^2 + r + 1 = 0$$
 has roots  $\frac{-1}{2} \pm \frac{\sqrt{3}}{2}I$ .

General solution:

$$y = C_0 e^{(-1/2)x} \cos\left(\frac{\sqrt{3}}{2}\right) x + C_2 e^{(-1/2)x} \sin\left(\frac{\sqrt{3}}{2}\right) x$$

$$y = e^{-x/2} \left[ C_1 \cos \left( \frac{\sqrt{5}}{2} \right) x + C_2 \sin \left( \frac{\sqrt{3}}{2} \right) x \right]$$

15. Auxiliary equation: 
$$r^4 + 3r^2 - 4 = 0$$
,  
 $(r+1)(r-1)(r^2+4) = 0$  has roots  $-1$ ,  $1$ ,  $\pm 2i$ .  
General solution:  
 $y = C_1e^{-x} + C_2e^x + C_3\cos 2x + C_4\sin 2x$ 

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