Math 152 Exam #3 Answers

1. 6.5

2. $C = (-2,3)$ $r = 7$

3. $2x + 3y + 10 = 0$

4. -3

5. $y = \dfrac{3}{2}w\sqrt{x}$

6. $f(x) = \begin{cases} 2-x & \text{if } x \le 0 \\ -3 & \text{if } x > 0 \end{cases}$

7. 4

8. $9x^2 + 6x - 4$

9. $8a^3b^4c\sqrt{ac}$

10. $\dfrac{125x^{12}}{y^{3/2}}$ None of these.

11. $V(t) = -1250t + 18000$

12. $d = t\sqrt{130}$

13. more than 25,000, less than 50,000
    30,224

14. $\log\dfrac{(x+2)^4(x-1)^3}{x^2}$