

**MATH 1041 RECOMMENDED HOMEWORK PROBLEMS  
SUMMER 2009**

Text: **Jon Rogawski**, *Calculus: Early Transcendentals*, First Edition, W.H. Freeman and Co.

**Chapter 2: LIMITS**

**2.2:** 1, 2, 7, 9, 10, 37, 38, 40, 44, 45, 47, 48, 49

**2.3:** 1, 3, 6, 7–21 odd, 24–30

**2.4:** 2–6, 17, 19, 23–29 odd, 35, 37, 39, 43, 45, 53–55, 59–71 odd, 75, 77, 80, 82, 83, 85

**2.5:** 1, 3, 5, 6, 7, 9, 10, 11, 13, 17, 19, 21, 27–31 odd, 37

**2.6:** 3–6, 9–17 odd, 18, 23, 25, 28, 30, 31, 42

**2.7:** 1, 3, 4, 5, 7, 11, 21, 22

**Chapter 3: DIFFERENTIATION**

**3.1:** 1, 5, 11, 13, 14, 15, 19–29 odd, 32, 33, 39, 41, 52–56

**3.2:** 1–21 odd, 22, 25, 28, 29, 33–35, 39–45 odd, 52, 53, 55, 57, 76, 77, 79

**3.3:** 1–15 odd, 19–23, 26, 28, 29, 30, 45, 49–52

**3.4:** 1, 3, 4, 5, 7, 13, 15, 17, 20, 31

**3.5:** 1–9 odd, 13, 15, 17, 19, 23, 37a, 45

**3.6:** 1, 3, 5, 9–37 odd, 45, 49

**3.7:** 1, 3, 7, 9–13, 21, 23–29 odd, 33, 35, 37, 40, 41, 45, 51, 53, 54, 56, 57, 61, 63, 65, 79–82

**3.8:** 9, 11, 13, 21, 23–26, 28, 29, 30, 31, 33, 34, 35, 37

**3.9:** 22–26, 28, 31, 33

**3.10:** 1, 3, 4, 5–15 odd, 29, 32, 35–38, 43, 45, 46, 48

**3.11:** 1–3, 5, 7, 9, 10, 11, 15, 17, 19, 25, 26, 31

**Chapter 4: APPLICATIONS OF THE DERIVATIVE**

**4.2:** 1–11 odd, 12, 15, 18, 23, 25, 32, 33, 39, 45, 49, 51–53, 55, 79–82

**4.3:** 1–4, 7, 12, 13, 15, 17, 23, 24, 25, 27, 33, 35, 39, 43, 45, 46, 47, 49, 51

**4.4:** 1, 3, 4–6, 7, 11, 13, 15, 16, 17, 23, 25, 35, 39, 43, 45, 56–58

**4.5:** 1, 3–6, 13, 15, 19, 25, 31, 42, 45, 52, 53, 55, 57, 61, 63, 71–73, 75, 77, 87

**4.6:** 1–3, 7, 8, 10–13, 24, 27

**4.7:** 1–27 odd, 31–41 odd, 43, 44, 47, 48, 63

**4.9:** 1, 3, 5, 7, 9–12, 13–23 odd, 27, 29–33, 35, 39, 41, 45, 47, 51, 55, 57, 59, 61, 63, 67

**Chapter 5: THE INTEGRAL**

**5.1:** 1, 4, 5, 11, 13, 15, 19, 23 (use a calculator in Problem 23)

**5.2:** 1, 3, 4, 6, 7, 9, 13, 14, 15

**5.3:** 1–3, 11–39 odd