## Miniexam 2 (8 Points total)

MATH 141, SUMMER 2016

NAME:

**Problem 1** Evaluate  $\int \frac{dx}{\sqrt{9-x^2}}$ .

(a) 
$$\frac{1}{3}\sin^{-1}(\frac{x}{3}) + C$$

(b) 
$$\frac{1}{3}\cos^{-1}(\frac{x}{3}) + C$$

(c) 
$$\sin^{-1}\left(\frac{x}{3}\right) + C$$

(d) 
$$\frac{1}{3} \tan^{-1}(\frac{x}{3}) + C$$

(e) 
$$\tan^{-1}(\frac{x}{3}) + C$$

**Problem 2** Evaluate  $\int x^6 \ln x dx$ .

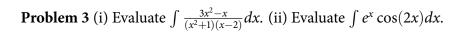
(a) 
$$\frac{x^7 \ln x}{7} - \frac{x^7}{49} + C$$

(b) 
$$\frac{x^6}{7} + C$$

(c) 
$$x^7 \ln x - x^7 + C$$

(d) 
$$x^7 \ln x + C$$

(e) 
$$6x^5 \ln x + x^5 + C$$



## Feedback:

1. Any comments (on lectures, homework, quizzes, course, me, etc.)?