Practice Exam- From MAT 120	Marks: $\dfrac{\quad\quad}{20}$
Instructor: Mahboob Shaheen (MS1)	
Time: 30 minutes	

You must show all works to qualify for full credit.

1. Find $\dfrac{dy}{dx}$ (5 + 5 = 10 points)

a) $\sin(x^2 y^2) = xy$	b) $y = (2x^2 + 7)\sin^2(5x)\ln(5x)$

2. Evaluate the integrals.   (5 + 5 = 10 points)

a) $\displaystyle\int e^{\sin\theta}\cos\theta\, d\theta$	b) $\displaystyle\int_1^3 \frac{x+2}{\sqrt{x^2+4x+7}}\, dx$