Question 1 [8 marks]

For questions 1.1 - 1.8, choose one correct answer, and make a cross (X) in the correct block.

Question	an.	ь	C	d	40
1.1		X		Ti -	T
1.2				X	
1.3			ж		
1.4				X	
1.5		1000	X		
1.6		X			10
1.7	i i i i i i i i i i i i i i i i i i i	X			
1.8	X				

The Mean Value Theorem does not apply to f(x) = |x - 3| on [1, 4] because

- (a) f(x) is not continuous on [1, 4]
- (b) f(x) is not differentiable on (1,4)
- (c) f(1) ≠ f(4)
- (d) f(1) > f(4)
- (e) None of the above

The double-angle formula for $\cos^2 x$ is

- (a) $\frac{1}{2}(1 + 2\sin 2x)$ (b) $\frac{1}{2}(1 2\cos 2x)$
- (c) $\frac{1}{2}(1 \sin 2x)$
- (d) $\frac{1}{2}(1 + \cos 2x)$
- (e) None of the above

The average value of \sqrt{x} over the interval [0,2] is

- (a) $\frac{1}{2}\sqrt{2}$
- (b) $\frac{1}{2}\sqrt{2}$
- (c) $\frac{2}{3}\sqrt{2}$
- (d) #\sqrt{2}
- (e) None of the above

1.4 Which of the following integrals gives the area of the surface by rotating the curve $y = \sqrt{x}$ about the x-axis on the interval [a, b]?

- (a) $\int_{a}^{b} 2\pi x \sqrt{1 + \frac{1}{2x}} dx$
- (b) $\int_{-b}^{b} 2\pi x \sqrt{1 + \frac{1}{4x}} dx$
- (c) $\int_{a}^{b} 2\pi \sqrt{x} \sqrt{1 + \frac{1}{2x}} dx$
- (d) $\int_{0}^{x} 2\pi \sqrt{x} \sqrt{1 + \frac{1}{4x}} dx$
- (e) None of the above

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