Math 222-Timed exercise -1 (53402)

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Marks: 

Question 1 : Choose the correct answer

1. The rate of change of $ K\left(s\right)=πe^{2s}+2sinπs$ at $s=0$ is equal to

(a) $2π$ (b) $2$ (c) $4π$ (d) 0

1. Suppose a boat leaves port, travels 10 miles north, turns 20 degrees west, and travels another 8 miles. How far from port is the boat?

(a) 17.7mi (b) $7.74 mi$ (c) $19.65 mi$ (d)

1. If $ y\left(x\right)=1+x+\left(x-3\right)^{2}-xlnx,$ then $\frac{d^{3}y}{dx^{3}}$ is equal to

(a) $\frac{1}{x^{2}}$ (b) $-\frac{1}{x^{2}}$ (c) $\frac{1}{x}$ (d) $-\frac{1}{x}$

1. In $ ∆ ABC$ : $AC=8 cm,BC=6 cm, and angle BAC=35^{°}$ then $angle ABC$ is equal to

(a) $130.1^{°}$ (b) $14.9^{°}$ (c) $49.9^{°}$ (d) $164.1^{°}$

1. In $ ∆ ABC$ : $AC=10.0 in,BC=15.0 in, and angle ACB=45^{°}$ then the $angle BAC$ is equal to

(a) $41^{°}\acute{40}$ (b) $138^{°}\acute{60}$ (c) no solution (d) $45^{°}\acute{40}$