

Tag : Calc1B.21-22.SampleTest1_Answers
Course : **Calculus 1B**
Duration : 2 hours

Answers to the questions of Sample Test 1

1. The correct answer is H)

2.
$$\frac{3x^2}{1 + |2 - x^3|}$$

3.
$$\frac{2}{5}(9\sqrt{3} - 4\sqrt{2}) \quad \text{or} \quad \frac{18}{5}\sqrt{3} - \frac{8}{5}\sqrt{2}$$

4.
$$\frac{1}{4}$$

5. The correct answer is G)

6.
$$P_3(x) = 1 + \frac{1}{2}x - \frac{15}{8}x^2 - \frac{47}{48}x^3$$

7. a. -

(Show that the left-hand side and right-hand side of the given differential equation are equal when you substitute $e^{2\sqrt{x}} - e^{\sqrt{x}}$ for y .)

b.
$$y = 2e^{2\sqrt{x}} - e^{\sqrt{x}}$$

8. a.
$$\sqrt{3} e^{\frac{5\pi}{6}i}$$

b.
$$-27$$

9. The correct answer is C)

10.
$$y = 26e^{-2x} - 17e^{-3x} + \sin x + \cos x$$