PE 3
1) a)
$$g'(b) - g'(-1) = \begin{bmatrix} 1 - (-3) \\ b - (-1) \end{bmatrix} + \begin{bmatrix} 1 - (-3) \\ b - (-1) \end{bmatrix} + \begin{bmatrix} 1 - (-3) \\ b - (-1) \end{bmatrix} + \begin{bmatrix} 1 - (-3) \\ b - (-1) \end{bmatrix} + \begin{bmatrix} 1 - (-3) \\ b - (-1) \end{bmatrix} + \begin{bmatrix} 1 - (-3) \\ b - (-1) \end{bmatrix} + \begin{bmatrix} 1 - (-3) \\ b - (-1) \end{bmatrix} + \begin{bmatrix} 1 - (-3) \\ b - (-1) \end{bmatrix} + \begin{bmatrix} 1 - (-3) \\ b - (-1) \end{bmatrix} + \begin{bmatrix} 1 - (-3) \\ b - (-1) \end{bmatrix} + \begin{bmatrix} 1 - (-3) \\ b - (-1) \end{bmatrix} + \begin{bmatrix} 1 - (-3) \\ b - (-1) \end{bmatrix} + \begin{bmatrix} 1 - (-3) \\ b - (-3) \end{bmatrix} + \begin{bmatrix} 1 - (-3) \\$$

$$\begin{array}{c} -1 - \left(\frac{1}{2} 3 \cos(\frac{\pi}{4} \times) + \left(\frac{1}{4}(1)(1+3)\right)\right) \\ -1 - \left(\left[\frac{\pi}{4} \sin(\frac{\pi}{4} \times)\right]_{\chi}^{2} - 2\right) \\ -1 - \left(\left(\frac{\pi}{4} \sin(\frac{\pi}{4} \times)\right]_{\chi}^{2} - 2\right) \\ -1 - \left(\left(\frac{\pi}{4} \sin(\frac{\pi}{4} \times)\right)_{\chi}^{2} - 2\right) \\ -1 - \left(\left(\frac{\pi}{4} \sin(\frac{\pi}{4} \times)\right)_{\chi}^{2} - 2\right) \\ -1 - \left(\left(\frac{\pi}{4} \sin(\frac{\pi}{4} \times)\right)_{\chi}^{2} - 2\right) \\ 1 + \frac{12}{\pi} \\ \left(\frac{\pi}{4}, 1 + \frac{12}{\pi}\right) + 1 \cdot \frac{1}{9}(2) \\ \text{Sloge: } g^{+}(2) = 0 \\ 1 - \left(\frac{1}{4} - 2\right) \\ \frac{1}{4} - \frac{1}{4} - 2\right) \\ \frac{1}{4} - \left(\left(\frac{1}{4} + \frac{\pi}{4}\right) + 1 \cdot \frac{1}{9}(2)\right) \\ \text{Sloge: } g^{+}(2) = 0 \\ 1 - \left(\frac{1}{4} + \frac{\pi}{4}\right) = 0 \\ \left(\frac{1}{4} - \frac{1}{4}\right) = 0 \\ \frac{1}{4} - \left(\frac{1}{4} + \frac{\pi}{4}\right) = 0 \\ \frac{1}{4} - \frac{\pi}{4} - \frac{1$$

(e)
$$\int_{1}^{1} 2 - \sqrt{3} x = 2 - \sqrt{3} = 0$$
 +1 verifies
Since g_{1} 's diff, D is care, So conditions
 $\int_{2}^{1} 5(x) = 5(6) = 0$ (work bolow) and
 $\int_{3}^{1} 5(x) = 5(6) + 5(6)(x) dx = -1 + \frac{1}{2}(1)(1) + \frac{1}{2}(1)(1) = 0$
By lingulation d^{1}
 $\int_{2}^{1} (8) = 5(6) + 5(6)(x) dx = -1 + \frac{1}{2}(1)(1) + \frac{1}{2}(1)(1) = 0$
By lingulation d^{1}
 $\int_{2}^{1} (8) = \frac{1}{2} \sqrt{3} = -\frac{1}{3} \sqrt{3} = -\frac{1}{3} (8)^{\frac{1}{3}} = \frac{1}{3} (1)^{\frac{1}{3}} = \frac{1}{3} (1$

2 a)
$$v'(16) = v(20) - v(12) = \begin{bmatrix} 410 - 200 & m/2 \\ 300 - 12 \end{bmatrix} = \begin{bmatrix} 40 - 200 & m/2 \\ 30 - 12 \end{bmatrix}$$

Johanna's a celebration is approx. $5^{m}/mn^{2}$
when t= 16 minutes. +1 int. wo units
b) $v^{1/2} = \frac{8}{20} = \frac{16}{20} = \frac{1}{20} = \frac{1}{20}$

Suggested Scoring:	
Raw Score:	Exam Score:
14-23	5
12-13	4
9-11	3
6-8	2
0-5	1

As previously mentioned, College Board has not predetermined the scores needed to earn a 3,4, or 5 for this year. The level of difficulty of the exam will evaluated with the goal of having scoring distributions to be similar to previous years. However, Q1 will be worth 60% of your overall score and Q2 will be worth 40%. This rubric is just a potential guide and meant to be a helpful tool to gauge

your performance. It is not a guarantee of how many points questions will be worth and where the cuts off are.