

This exam contains 4 pages (including this cover page) and 11 questions.  
Total of points is 103.

Rest of introduction. Rest of introduction. Rest of introduction. Rest of introduction. Rest of introduction. Rest of introduction. Rest of introduction. Rest of introduction.

Grade Table (for teacher use only)

Question	Points	Score
1	1	
2	20	
3	2	
4	2	
5	3	
6	3	
7	2	
8	10	
9	20	
10	20	
11	20	
Total:	103	

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- (1 point) Calculate  $2+2$ .
- (20 points) Consider the function  $f(x) = 3x^3 + 2x^2 + x + 1$ .
  - (10 points) Calculate  $f'(x)$ .
  - (10 points) Calculate  $f''(x)$ .
- (2 points) One of these things is not like the others; one of these things is not the same. Which one is different?
  - John
  - Paul
  - George
  - Ringo
  - Socrates
- (2 points) One of these things is not like the others; one of these things is not the same. Which one is different? A. John B. Paul C. George D. Ringo E. Socrates
- (3 points) Mark box if true.

- ☐  $2+2=4$
- ☐  $\frac{d}{dx}(x^2 + 1) = 2x + 1$
- ☐ The Moon is made of cheese.

6. (3 points) Mark box if true.

- ☐  $2+2=4$
- ☐  $\frac{d}{dx}(x^2 + 1) = 2x + 1$
- ☐ The Moon is made of cheese.

7. (2 points) Element with  $Z = 92$  is:

- |      |       |
|------|-------|
| 1) H | 5) Ba |
| 2) O | 6) Pb |
| 3) F | 7) U  |
| 4) S | 8) Pu |

8. (10 points) In no more than one paragraph, explain why the earth is round.

9. (20 points) Explain blah, blah...

[illegible]

11. (20 points) Explain blah, blah...

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