

## S6E-11A

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1. (a) Yes;  $\frac{1}{4}$   
(b) No  
(c) Yes;  $-1$   
(d) No

2. (a) 19.6875  
(b) 1717986920  
(c)  $-13.5$

3. (a) 56  
(b) 0.375

4. First term =  $\frac{4}{27}$ , Common ratio =  $\frac{3}{2}$

5. (a) 81

- (b) 243

6.  $\frac{2}{825}$

7. 10

8. (a)  $\cos^2 \alpha$   
(b) 1

9. (a) 7.38 m  
(b) No

M.C.

10. B

11. A

12. C