## Selected answers for the Spring 2005 Final Examination

1. $\frac{1}{15}+\frac{1}{60}, \frac{1}{18}+\frac{1}{36}, \frac{1}{16}+\frac{1}{48}$.
2. See history06b.pdf.
3. (i) and (iv) are arithmetic progressions, but the others are not.
4. See cubic-example.pdf.
5. B B A A B D.
6. $\begin{array}{llllll}\mathrm{E} & \mathrm{G} & \mathrm{F} / \mathrm{H} & \mathrm{A} & \mathbf{J} & \mathbf{C} \text {. }\end{array}$
