1. 
$$\sum_{k=1}^{\infty} (-1)^{k+1} \frac{1}{2^k + k}$$

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2. 
$$\sum_{j=5}^{\infty} (-1)^j \frac{j!}{(j+2)!}$$

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3. 
$$\sum_{k=3}^{\infty} (-1)^{k+1} \frac{k}{\ln(k)}$$

$$4. \sum_{k=2}^{\infty} \frac{k!}{k!-3}$$

5. 
$$\sum_{k=1}^{\infty} (-1)^{k+1} \sin(k)$$

$$6. \sum_{k=2}^{\infty} (-1)^k \sin\left(\frac{\pi}{k}\right)$$

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$$7. \sum_{k=3}^{\infty} (-1)^{k+1} \cos\left(\frac{\pi}{k}\right)$$

$$8. \sum_{k=1}^{\infty} \frac{1}{k^2 + 1}$$