Series: Sections 9.2-9.4

Test the series for convergence or divergence. Name the test utilized. Support your conclusion. If convergent, find the sum whenever possible

a. $\sum_{n=0}^{\infty} \frac{2^{n-1}}{3^n}$	*b.* $\sum_{n=1}^{\infty} \frac{2^n}{2^{n+1}+1}$
c. $\sum_{n=1}^{\infty} \frac{n}{n^2+1}$	*d.* $\sum_{n=0}^{\infty} \frac{1}{n^2+3n+2}$ *Telescopic: try partial fractions*
e. $\sum_{n=1}^{\infty} \frac{1}{n\sqrt[3]{n}}$	*f.* $\sum_{n=0}^{\infty} \left(\frac{\pi}{2}\right)^n$
g. $\sum_{n=1}^{\infty} \frac{n^2}{n^4+1}$	*h.* $\frac{1}{2}+\frac{2}{3}+\frac{3}{4}+\frac{4}{5}+\frac{5}{6}+\ldots$
i. $\sum_{n=1}^{\infty} \frac{2^n}{n^2+1}$	*j.* $\sum_{n=0}^{\infty} (-1)^n \frac{5}{2^n}$