Sequences:

(a)
$$s_n = n!(-1)^n$$

(a) $s_n = n!(-1)^n$ increasing / decreasing / not monotonic AND not bounded / bounded

(b)
$$s_n = \frac{n}{2n^2 + 1}$$

(b) $s_n = \frac{n}{2n^2 + 1}$ increasing / decreasing / not monotonic AND not bounded / bounded

(c)
$$s_n = \frac{(-1)^n}{3^n}$$

(c) $s_n = \frac{(-1)^n}{3^n}$ increasing / decreasing / not monotonic AND not bounded / bounded

(d)
$$s_n = \frac{n-1}{n}$$

(d) $s_n = \frac{n-1}{n}$ increasing / decreasing / not monotonic AND not bounded / bounded