Squeeze Theoren:

$$= \lim_{n\to\infty} \left(\frac{3}{n}+1\right)^n$$

$$= \lim_{n\to\infty} \left(1+\frac{3}{n}\right)^n$$

$$= e^{3} \left(\sin e^{x} = \lim_{n\to\infty} \left(1+\frac{x}{n}\right)^n\right)$$

(16) Describe the boundedness & nonotonicity of (1/4, -1/6, 1/8, -1/0, 1/2, ").

The sequence is bounded since all terms are between +1.

The sequence is not monotonic since it decreases from 14 to -1/6 and increases from -1/6 to 1/8.

The Monotonic sequence theorem doesn't apply, but it still appears to converge to O.