11. Find the following limits if they exist. If they don't exist, state so.

(a) 
$$\lim_{n \to \infty} \frac{n+2}{3n+5}$$
 (b)  $\lim_{n \to \infty} \frac{n^2 - 4n}{16n^2 - 4n}$ 

(b) 
$$\lim_{n \to \infty} \frac{n^2 - 4n}{16n^2 - 4n}$$

(c) 
$$\lim_{n\to\infty} \frac{8n^3 - n^2 + 2}{10n^2 - 5n}$$

(c) 
$$\lim_{n\to\infty} \frac{8n^3 - n^2 + 2}{10n^2 - 5n}$$
 (d)  $\lim_{n\to\infty} \sqrt{\frac{6n - 12}{2n + 6}}$