

# MA 137 Worksheet #6

Sections 2.1 and 2.2

9/3/20

1. Evaluate the limit and justify your answer.

$$\lim_{n \rightarrow \infty} \frac{(2 + 3n)^2}{4 - n^2}$$

2. Evaluate the limit and justify your answer.

$$\lim_{n \rightarrow \infty} \frac{(8 + n)^2}{5n^2 + 3}$$

3. Evaluate the limit and justify your answer.

$$\lim_{n \rightarrow \infty} \frac{3n^3 + 3^{-n}}{(4n + 1)n}$$