

Prove each of the following limit statements using a $\delta - \varepsilon$ proof.

1. $\lim_{x \rightarrow 3} (2x + 7) = 13$

2. $\lim_{x \rightarrow (-4)} (3x + 10) = -2$

3. $\lim_{x \rightarrow 4} (-5x + 14) = -6$

4. $\lim_{x \rightarrow (-1)} (-7x - 7) = 0$

5. $\lim_{x \rightarrow (-2)} (-4x - 7) = 1$

6. $\lim_{x \rightarrow a} (mx + b) = (ma + b)$