

### Bonus Limits

Compute these extra limits if you have free time.

**OPTIONAL BONUS #1** Compute  $\lim_{x \rightarrow 2} \frac{(4 - \sqrt{x + 14})(\sqrt{13 - x^2} - 3)}{(6 - \sqrt{40 - 2x})(\sqrt{x^2 + 21} - 5)} =$

**OPTIONAL BONUS #2** Compute  $\lim_{x \rightarrow 0} \frac{|x - 1| - |x + 1| - |x|}{|x| + |2 - x| - |x + 2|} =$

**OPTIONAL BONUS #3** Compute  $\lim_{x \rightarrow 1} \frac{\frac{1}{\sqrt{2 - x}} - \frac{2}{\sqrt{3 + x}}}{\frac{7}{\sqrt{50 - x}} - \frac{6}{\sqrt{x + 35}}}$

**OPTIONAL BONUS #4** Compute  $\lim_{x \rightarrow 1} \frac{2|x - 1| - |x + 2| + |x| + |x + 1|}{|x - 1| + |3 - x| - |x + 1|} =$