Rationalizing

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1. Solve
$$\lim_{x \to 8} \frac{\sqrt{x+1} - 3}{x-8}$$

2. Solve
$$\lim_{x\to 5} \frac{\sqrt{x^2+11}-6}{x-5}$$

3. Solve
$$\lim_{x\to 0} \frac{\sqrt{x+2}-\sqrt{2}}{x}$$

4. Solve
$$\lim_{x \to 0} \frac{x}{\sqrt{x+9} - 3}$$

5. Solve
$$\lim_{x \to 1} \frac{x-1}{\sqrt{x}-1}$$

6. Solve
$$\lim_{x \to 3} \frac{\sqrt{7-x}-2}{1-\sqrt{4-x}}$$

7. Solve
$$\lim_{x\to 0} \frac{x}{3-\sqrt{x+9}}$$

8. Solve
$$\lim_{x \to 0} \frac{\sqrt{x+9} - \sqrt{-x+9}}{x}$$

9. Solve
$$\lim_{x \to 4} \frac{\sqrt{x+5} - 3}{x-4}$$

10. Solve
$$\lim_{x \to 5} \frac{x-2}{\sqrt{x-1}-1}$$