

Limits Radical Conjugate Functions Practice

Find the indicated limits.

a) $\frac{x}{\sqrt{x+9}-3}$

b) $\frac{x}{\sqrt{x+9}-3}$

c) $\frac{\sqrt{x}-4}{x-16}$

d) $\frac{1-\sqrt{x}}{x-1}$

$$\text{e) } \frac{\sqrt{x+7}-\sqrt{7}}{x}$$

$$\text{f) } \frac{x^2}{\sqrt{x^2+12}-\sqrt{12}}$$

$$\text{g) } \frac{\sqrt{2x+5}-\sqrt{x+7}}{x-2}$$

$$\text{h) } \frac{\sqrt{3x+4}-x}{4-x}$$

$$\text{i) } \frac{3x-18}{10-\sqrt{13x+22}}$$

$$\text{j) } \frac{9-\sqrt{x+80}}{x-1}$$