Practice #1

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2)
$$\lim_{x \to 1} \frac{2x-3}{x+5} = \frac{2(1)-3}{1+5} = \frac{2+3}{6} = \frac{-1}{6}$$

3)
$$\lim_{x \to 2} \frac{\sqrt{x+2}}{x-4} = \frac{\sqrt{2+2}}{2-4} = \frac{2}{2-4} = \frac{2}{$$

4)
$$\lim_{x\to 3} \frac{3-x}{x^2-q} = \lim_{x\to 3} \frac{3-x}{(x+3)} = \lim_{x\to 3} \frac{1}{(x+3)} = \lim_{x\to 3} \frac{1}$$

5) (in
$$\frac{x^2-5x+4}{x^2-2x-8}$$
 = (in $(x-1)(x-1)$ = (in $(x-1)(x-1)$ = $(x-1)(x-$

6)
$$\lim_{x\to 3} \frac{(x+1)-2}{x-3} = \lim_{x\to 3} \frac{(x+1)-2}{(x+1)+2} = \lim_{x\to 3} \frac{(x+1)-4}{(x+1)+2} =$$

$$= \lim_{x \to 3} \frac{1}{\sqrt{x+1} + 2} = \frac{1}{\sqrt{3+1} + 2} = \frac{1}{\sqrt{2+2}} = \frac{1}{\sqrt{4}}$$

1)
$$\lim_{y \to 2} \frac{y^3 + x}{y+2} \lim_{x \to 2} \frac{(y+2)(y-1)(2)+4}{y+2} = \lim_{x \to 2} \frac{y^2 - 2(x) + y}{y+2} = \lim_{x \to 2} \frac{y^2 - 2$$