ΑΣΚΗΣΗ 4

Να υπολογισθούν τα παρακάτω όρια:

1. $\lim\limits_{x\to 4}\dfrac{\sqrt{x}-2}{x-4}$
2. $\lim\limits_{x\to 5}\dfrac{\sqrt{x}-\sqrt{5}}{x-5}$
3. $\lim\limits_{x\to 3}\dfrac{\sqrt{x+1}-2}{x-3}$
4. $\lim\limits_{x\to 3}\dfrac{\sqrt{x+1}-2}{x^2-9}$
5. $\lim\limits_{x\to 0}\dfrac{\sqrt{x+2}-\sqrt{2}}{x^2+5}$
6. $\lim\limits_{x\to 4}\dfrac{\sqrt{x}-2}{x^2-6x+8}$
7. $\lim\limits_{x\to 0}\dfrac{\sqrt{x}}{x+\sqrt{x}}$
8. $\lim\limits_{x\to 2}\dfrac{\sqrt{4x+1}-3}{x-\sqrt{x+2}}$
9. $\lim\limits_{x\to 1}\dfrac{x+\sqrt{x}-2}{x-1}$
10. $\lim\limits_{x\to 2}\dfrac{x}{\sqrt{x^2+1}-1}$
11. $\lim\limits_{x\to 2}\dfrac{3-\sqrt{x+7}}{\sqrt{x^2-3}-1}$
12. $\lim\limits_{x\to 3}\dfrac{\sqrt{x}-\sqrt{3}}{\sqrt{x+33}-6}$
13. $\lim\limits_{x\to 1}\dfrac{\sqrt{x}-1}{x^2+x-2}$
14. $\lim\limits_{x\to 3}\dfrac{x^2+x}{\sqrt{x}}$
15. $\lim\limits_{x\to 2}\dfrac{\sqrt{x}-\sqrt{2}}{x^2+x-6}$
16. $\lim\limits_{x\to 2}\dfrac{2x-4}{\sqrt{2}-\sqrt{x}}$
17. $\lim\limits_{x\to 4}\dfrac{\sqrt{x+1}-\sqrt{5}}{\sqrt{x^2+9}-5}$
18. $\lim\limits_{x\to 3}\dfrac{x^3-2x^2-3x}{\sqrt{x}-\sqrt{3}}$
19. $\lim\limits_{x\to 3}\dfrac{\sqrt{x+1}-2}{x^3-9x}$
20. $\lim\limits_{x\to 0}\dfrac{\sqrt{x+3}-\sqrt{3}}{x}$