## Giải phương trình chứa căn

Bài 1. Gpt: a) $\sqrt{\dfrac{2x-3}{x-1}} = 2$ ; b) $\dfrac{\sqrt{2x-3}}{\sqrt{x-1}} = 2$ ; c) $3x - 7\sqrt{x} + 4 = 0$ ;

d) $\sqrt{x^2 - \dfrac{1}{2}x + \dfrac{1}{16}} = \dfrac{1}{4} - x$ ; e) $\sqrt{1 - 12x + 36x^2} = 5$

Bài 2. Gpt (bp 2 vế)

a) $\sqrt{4x-7} = 5 - 2x$

b) $\sqrt{4x^2 + 7x + 12} + x - 3 = 0$

c) $\sqrt{x+1} = 8 - \sqrt{3x+1}$

d) $\sqrt{3x+4} - \sqrt{2x-1} = \sqrt{x+3}$

Bài 3. Gpt: (đặt ẩn phụ)

a) $\sqrt{36x-36} - \sqrt{9x-9} - \sqrt{4x-4} = 16 - \sqrt{x-1}$

b) $2\sqrt{\dfrac{x-1}{4}} - 3 = 2\sqrt{\dfrac{4x-4}{9}} - \dfrac{1}{3}$

c) $\sqrt{4x-20} + 3\sqrt{\dfrac{x-5}{9}} - \dfrac{1}{3}\sqrt{9x-45} = 4$

Bài 4. Gpt: (đặt nhân tử chung)

a) $\sqrt{x^2-4} - \sqrt{x-2} = 0$

b) $\sqrt{x^2-2x} + \sqrt{2x^2+4x} = 2x$

c) $\sqrt{x^2+2x-15} - \sqrt{x^2-3x} = \sqrt{x-3}$

d) $\sqrt{2x^2-3x-2} + 3\sqrt{x+2} = 3\sqrt{2x+1} + \sqrt{x^2-4}$  $\sqrt{3x+4} - \sqrt{2x-1} = \sqrt{x+3}$