

$$\frac{3(x-2)^2}{3} = \frac{8}{3}$$

$$\sqrt{(x-2)^2} = \frac{\pm\sqrt{8}\sqrt{3}}{\sqrt{3}\cdot\sqrt{3}}$$

$$x-2 = \frac{\pm\sqrt{24}}{3} \quad (4)6$$

$$x-2 = \pm \frac{2\sqrt{6}}{3}$$

$$x = 2 \pm \frac{2\sqrt{6}}{3}$$

$$\frac{2 \cdot 3}{3} \pm \frac{2\sqrt{6}}{3} =$$

$$\frac{6 \pm 2\sqrt{6}}{3}$$