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$$\sqrt[3]{2x+3} \ge \sqrt[3]{-2x^2-1}$$
 $\sqrt[2x+3]{2x^2-3x-5}$ 
 $\sqrt[2x+3]{-1-x} \ge \sqrt[3]{-2x^2-1}$ 
 $\sqrt[2x+3]{-1-x} \ge \sqrt[2x^2-3x-5]$ 
 $\sqrt[2x+3]{-1-x} \ge \sqrt[2x^2-3x-5]$ 
 $\sqrt[2x+3]{2x^2-3x-5}$ 
 $\sqrt[2x+4]{2x^2-3x-5}$ 
 $\sqrt[2x+4]{2x^2-3x-5}$ 
 $\sqrt[2x+4]{2x^2-3x-5}$ 
 $\sqrt[2x+4]{2x^2-3x-5}$ 
 $\sqrt[2x+4]{2x-5}$ 
 $\sqrt[2x+4]{2x-5}$ 

$$\frac{3}{3} = \frac{\sqrt{6x - x^2}}{3 - 2x} \ge 1$$

$$\frac{3}{5} \le x < \frac{3}{2}$$

$$\frac{\sqrt{6x - x^2}}{3 - 2x} = -4 \ge 0$$

$$\frac{\sqrt{6x - x^2}}{3 - 2x}$$

$$\frac{\sqrt{6x - x^2}}{3 - 2x}$$

$$\frac{\sqrt{6x - x^2}}{3 - 2x} > 0$$

$$\frac{3}{3} = 2x$$

$$\sqrt{6x - x^2} > 3 + 2x \ge 0$$

$$\sqrt{6x - x^2} > 3 + 2x \ge 0$$

$$\sqrt{6x - x^2} > 0$$

