

1.119.  
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$$\left(3(3^{x^2+3})\right)^{\frac{1}{2x^2}} > \frac{3}{\sqrt[10]{3}}$$
$$3^{\frac{1+x^2+3}{2x^2}} > 3^{\frac{9}{10}}$$

$$\frac{1+x^2+3}{2x^2} > \frac{9}{10} \quad \therefore \frac{1+x^2}{2} > \frac{9}{10} \rightarrow$$

$$10x^2+40 > 18x^2 \rightarrow 5 > x^2$$
$$\boxed{-5 < x < \sqrt{5}}$$
$$x \neq 0$$