

Sometimes, Always, Never

By plugging in values for x , determine if the following statements are sometimes true, always true, or never true. Show all the examples you try.

A. $\sqrt{x+2} = \sqrt{x} + \sqrt{2}$

B. $\sqrt{3x} = \sqrt{3} \cdot \sqrt{x}$

C. $\sqrt{2-x} = \sqrt{2} - \sqrt{x}$

D. $\sqrt{x^2 - 2^2} = \sqrt{x} - \sqrt{2}$

E. $\sqrt{x^2} \cdot \sqrt{3^2} = 3x$

F. $\frac{\sqrt{x^2}}{\sqrt{3^2}} = \frac{x}{3}$

G. $(3 + \sqrt{x})(3 - \sqrt{x}) = 10$

H. $\sqrt{x+1} + \sqrt{x-1} = \sqrt{2x}$