

1. Evaluate each expression.

$$-\sqrt{\frac{4}{25}}$$

$$\sqrt{-64}$$

$$\sqrt{0.64}$$

$$-\sqrt{0.04}$$

$$\sqrt[3]{-64}$$

$$\sqrt{144 + 25}$$

$$\sqrt[3]{\frac{-8}{125}}$$

$$\sqrt[4]{81}$$

$$\sqrt[4]{-81}$$

$$\sqrt[9]{-1}$$

$$-\sqrt[4]{10,000}$$

2. Let $f(x) = -\sqrt{2x + 1}$ and find $f(4)$, $f(1)$, and $f(-1)$. Also, what is the domain of f ?

3. Simplify:

$$\sqrt{81x^4}$$

$$\sqrt{x^2 + 14x + 49}$$

$$\sqrt[3]{-125x^3}$$

$$\sqrt[6]{(-6)^6}$$

$$\sqrt[4]{(x + 5)^4}$$

$$\sqrt[9]{(x + 5)^9}$$

$$\sqrt[5]{-32(x - 2)^5}$$

4. Try this question... what's the domain of $f(x) = \frac{\sqrt{x-2}}{\sqrt{7-x}}$?

Q: What question can someone ask all day long, always get completely different answers, and yet all the answers could be correct?

