

Factor -500 to find perfect cubes: $\sqrt[3]{(-1) \cdot 125 \cdot 4 \cdot d^3} = \sqrt[3]{(-1)^3 \cdot 5^3 \cdot 4 \cdot d^3}$

Separate the factors into individual radicals: $\sqrt[3]{(-1)^3} \cdot \sqrt[3]{5^3} \cdot \sqrt[3]{4} \cdot \sqrt[3]{d^3}$

Simplify, using the property $\sqrt[3]{x^3} = x$: $-1 \cdot 5 \cdot \sqrt[3]{4} \cdot d = -5d\sqrt[3]{4}$