

Algebra II Practice A.APR.B.2: Remainder and Factor Theorems

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1. The design for a new ski slope can be modeled by $y = -x^3 + 17x^2 - 110x + 400$.
Use division to prove that $x = 10$ is a real root of this function.

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$(-x^3 + 17x^2 - 110x + 400) \div (x - 10) = -x^2 + 7x - 40$ with no remainder, so $x = 10$ is a real root of the
[1] function.
