

Algebra 2
Unit: Rational Functions
Section: Direct and Inverse Variation

Example: Finding Direct Variation Equation

Problem

If y varies directly as x , and y is equal to 15 and x equals 3, find the direct variation equation.

Solution

Step one. y is equal to k times x . The first step is to find k .

Plug in y equal to fifteen and x equal to three into our general equation. 15 equals k times 3.

Solve for k . k is equal to five.

Step two. Now that you have found k write the direct-variation equation. y is equal to five times x .