

y u x-

"Varies directly" is another way of saying "directly proportional to"

The greek letter alpha. Used to represent 2 things being proportional

 $y \alpha \sqrt{x}$

First, find the equation linking E and f.

e.g. E varies directly with the square of f.

When E equals 56, f equals 2.

a) Find the value of E when f = 0.5

b) Find the value of f when E = 224

$\epsilon \alpha f^2$	a) $f = 0.5$	
$E = kf^2$	E = 14 x 0.5 ²	
$56 = k \times 2^2$	E = 3.5	
56 = 4k	b) E=224	
k = 56 ÷ 4 = 14	$224 = 14f^2$	(divide by 14)
$E = 14f^2$	$16 = f^2$	(square root)
	4 = f	

