Constant of Variation

1) The variable u varies directly with v and inversely with w. The value of u is 30 when v = 12, w = 6. Find the constant of variation (k).

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2) The variable a varies directly with b. The value of a is 48 when b = $\frac{4}{5}$. Find the constant of variation (k).

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3) The variable h _____ of h is 512 when f = −4 and g = −2. Fir_____

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4) The variable p _____ 1.7 when q = 3.8 and r = 2.5. Find th_____

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5) The variable x varies directly with y and inversely with z². The value of x is 5 when y = 72, z = 3. Find the constant of variation (k).

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