Question

Make k the subject of the equation 11k = 13t - 7k/2t

Solution

$$11k = 13t - \frac{7k}{2t}$$

$$11k = \frac{13t \cdot 2t - 7k}{2t}$$

$$11k \cdot 2t = 26t^2 - 7k$$

$$22kt = 26t^2 - 7k$$

$$22kt + 7k = 26t^2$$

$$k(22t + 7) = 26t^2$$

$$k = \frac{26t^2}{22t + 7}$$

Answer: $k = \frac{26t^2}{22t+7}$.