

Answer on Question #42147, Math, Algebra

So, we have

$$\frac{k^2+8k+12}{k^2+13k+42} \cdot \frac{k^2+7k}{k^2-7k-18} = \frac{(k+6)(k+2)}{(k+6)(k+7)} \cdot \frac{(k+7)k}{(k-9)(k+2)} = \frac{k}{k-9}$$