Operations with rational expressions

$$\frac{2k}{3k+12}+\frac{k+7}{k^2+4k}$$

Which expression is equivalent to the above sum?

$$\frac{49m^4n - 21m^6n^2}{7m^2n^4}$$

Which expression is equivalent to the above for all m>1 and n>1?

Operations with rational expressions

$$\frac{4k^2-12k+9}{2k^2+19k-33}\cdot\frac{k^2+8k-33}{k^2-3k}$$

Which expression is equivalent to the above product for $k \geq 33$?

$$\frac{(2k^2+9)(2k^2-33)}{4k^4-57k^2-33}$$

$$\frac{5m^2 + 7m}{2m - 9} - \frac{2m}{2m - 9}$$

Which expression is equivalent to the above difference?

Operations with rational expressions

$$\frac{5x}{6y} \cdot \frac{3}{10y}$$

Which expression is equivalent to the above product for all y>0?



$$\bigcirc$$
 $\frac{x}{2y^2}$