1. $\displaystyle\int \frac{x+34}{x^2 - 4x - 12}\, dx \ =$

1. $\displaystyle\int \frac{x + 16}{x^2 + 2x - 8}\, dx \ =$

1. $\displaystyle\int \frac{10x - 2}{x^2 + 2x - 8}\, dx \;=$

1. $\displaystyle\int \frac{30x - 40}{x^2 - x - 6}\, dx \;=\;$