

Integrating $\frac{1}{(5x+2)^2}$ from 1 to infinity

Session 91

$$\int_1^\infty \frac{1}{(5u+2)^2} = \int_7^\infty \frac{1/5 du}{u^2} = -\frac{1/5}{u} \Big|_7^\infty = \frac{-1/5}{5u+2} \Big|_1^\infty = 0 - \left(-\frac{1/5}{7}\right) = \frac{1}{35}$$