Problem 27 in Section 7.1. Find the inverse Laplace transform of $F(s)=\frac{3}{s-4}$.

Solution. The fact sheet says that $\mathcal{L}\left(e^{a t}\right)=\frac{1}{s-a}$. It follows that

$$
\mathcal{L}^{-1}\left(\frac{3}{s-4}\right)=3 \mathcal{L}^{-1}\left(\frac{1}{s-4}\right)=3 e^{4 t} .
$$

