Convert $\frac{3 \pi}{4}$ radians to degrees.

1) Begin with a basic fact:

$$
\pi \mathrm{rad}=180^{\circ}
$$

2) Divide both sides by 4:

$$
\begin{aligned}
& \frac{\pi}{4} \mathrm{rad}=\frac{180^{\circ}}{4} \\
& \frac{\pi}{4} \mathrm{rad}=45^{\circ}
\end{aligned}
$$

3) Now multiply both sides by 3: $\quad \frac{3 \pi}{4} \mathrm{rad}=135^{\circ}$

Or
Begin with $\frac{3 \pi}{4}$ radians and multiply by $\frac{180^{\circ}}{2 \pi \text { radians }}$

1) Setup the multiplication, excluding the units: $\frac{3 \pi}{4} \times \frac{180}{2 \pi}$
2) Cancel off the $\pi$ 's in the top and bottom: $\frac{3}{4} \times \frac{180}{2}$
3) 180 divided by 2 is 90 :

$$
\frac{3}{4} \times 90
$$

4) Three fourths of 90 is 135 .
