Rationalise the Denominator

My turn	Your turn
$\frac{1}{\sqrt{2}}$	$\frac{1}{\sqrt{7}}$
$\frac{6}{\sqrt{2}}$	$\frac{35}{\sqrt{7}}$
$\frac{20}{3\sqrt{5}}$	$\frac{15}{3\sqrt{3}}$
$\frac{5\sqrt{63}}{\sqrt{7}}$	$\frac{5\sqrt{12}}{\sqrt{2}}$
$\frac{1}{3+\sqrt{2}}$	$\frac{1}{2+\sqrt{5}}$
$\frac{\sqrt{3}}{\sqrt{3}-4}$	$\frac{\sqrt{7}}{\sqrt{7}-4}$
$\frac{\sqrt{3}}{5\sqrt{3}-4}$	$\frac{\sqrt{7}}{3\sqrt{7}-4}$
$\frac{20}{\sqrt{5}+\sqrt{3}}$	$\frac{18}{\sqrt{3}+\sqrt{7}}$
$\frac{\sqrt{5}-\sqrt{3}}{\sqrt{5}+\sqrt{3}}$	$\frac{\sqrt{2}-\sqrt{7}}{\sqrt{2}+\sqrt{7}}$

Rationalise the Denominator - Answers

My turn

$$\frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$

$$\frac{6}{\sqrt{2}} = 3\sqrt{2}$$

$$\frac{20}{3\sqrt{5}} = \frac{4\sqrt{5}}{3}$$

$$\frac{5\sqrt{63}}{\sqrt{7}} = 15$$

$$\frac{1}{3+\sqrt{2}} = \frac{3+\sqrt{2}}{7}$$

$$\frac{\sqrt{3}}{\sqrt{3}-4} = \frac{-3+4\sqrt{3}}{13}$$

$$\frac{\sqrt{3}}{5\sqrt{3}-4} = \frac{15-4\sqrt{3}}{59}$$

$$\frac{20}{\sqrt{5}+\sqrt{3}} = 10(\sqrt{5}-\sqrt{3})$$

$$\frac{\sqrt{5}-\sqrt{3}}{\sqrt{5}+\sqrt{3}} = 4-\sqrt{15}$$

Your turn

$$\frac{1}{\sqrt{7}} = \frac{\sqrt{7}}{7}$$

$$\frac{35}{\sqrt{7}} = 5\sqrt{7}$$

$$\frac{10}{2\sqrt{3}} = 5\sqrt{3}$$

$$\frac{5\sqrt{12}}{\sqrt{3}} = 10$$

$$\frac{1}{2+\sqrt{5}} = \sqrt{5}-2$$

$$\frac{\sqrt{7}}{\sqrt{7}-4} = \frac{4\sqrt{7}-7}{9}$$

$$\frac{\sqrt{7}}{3\sqrt{7}-4} = \frac{21+4\sqrt{7}}{47}$$

$$\frac{18}{\sqrt{3}+\sqrt{7}} = \frac{-9\sqrt{3}-9\sqrt{7}}{2}$$

$$\frac{\sqrt{2}-\sqrt{7}}{\sqrt{2}+\sqrt{7}} = \frac{-9+2\sqrt{14}}{5}$$