Rationalise the Denominator

My turn

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

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

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

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

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

$$\frac{\sqrt{3}}{\sqrt{3}-4}$$

$$\frac{\sqrt{3}}{5\sqrt{3}-4}$$

$$\frac{20}{\sqrt{5}+\sqrt{3}}$$

$$\frac{\sqrt{5}-\sqrt{3}}{\sqrt{5}+\sqrt{3}}$$

Your turn

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

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

$$\frac{15}{3\sqrt{3}}$$

$$\frac{5\sqrt{12}}{\sqrt{2}}$$

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

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

$$\frac{\sqrt{7}}{3\sqrt{7}-4}$$

$$\frac{18}{\sqrt{3}+\sqrt{7}}$$

$$\frac{\sqrt{2}-\sqrt{7}}{\sqrt{2}+\sqrt{7}}$$

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

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

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

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

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

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

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

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

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

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