Fill In The Blanks…

**Rationalising the Denominator**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Question** | **Working** | **Answer** |  | **Question** | **Working** | **Answer** |
| $$\frac{5}{\sqrt{3}}$$ | $$×\frac{\sqrt{3}}{\sqrt{3}}$$ | $$=\frac{5\sqrt{3}}{\sqrt{9}}$$ | $$=\frac{5\sqrt{3}}{3}$$ |  | $$\frac{3}{2+\sqrt{2}}$$ | $$×\frac{2-\sqrt{2}}{2-\sqrt{2}}$$ | $$=\frac{3(2-\sqrt{2})}{4-\sqrt{4}}$$ | $$=\frac{6-3\sqrt{2}}{2}$$ |
| $$\frac{\sqrt{3}}{\sqrt{7}}$$ | $$×\frac{\sqrt{7}}{\sqrt{7}}$$ |  |  |  | $$\frac{8}{4-\sqrt{3}}$$ |  |  |  |
| $$\frac{5\sqrt{5}}{\sqrt{6}}$$ |  |  |  |  | $$\frac{\sqrt{5}}{6+\sqrt{5}}$$ |  |  |  |
| $$\frac{2+\sqrt{3}}{\sqrt{5}}$$ | $$×\frac{\sqrt{5}}{\sqrt{5}}$$ | $$=\frac{\sqrt{5}(2+\sqrt{3})}{\sqrt{25}}$$ | $$=\frac{2\sqrt{5}+\sqrt{15}}{5}$$ |  | $$\frac{3\sqrt{5}}{3-\sqrt{7}}$$ |  |  |  |
| $$\frac{3-\sqrt{5}}{\sqrt{2}}$$ |  |  |  |  | $$\frac{7+\sqrt{2}}{3-\sqrt{2}}$$ | $$×\frac{3+\sqrt{2}}{3+\sqrt{2}}$$ | $$=\frac{(7+\sqrt{2})(3+\sqrt{2})}{9-\sqrt{4}}$$ | $$=\frac{23+10\sqrt{2}}{7}$$ |
| $$\frac{1+\sqrt{2}}{2\sqrt{3}}$$ |  |  |  |  | $$\frac{1-\sqrt{8}}{5+\sqrt{2}}$$ |  |  |  |
| $$\frac{\sqrt{2}-3\sqrt{5}}{5\sqrt{2}}$$ |  |  |  |  | $$\frac{a+\sqrt{b}}{a\sqrt{b}}$$ |  |  |  |