Rationalising the denominator:

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Examples:

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

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

3.
$$\frac{7}{\sqrt{7}}$$

$$4.\frac{15}{\sqrt{5}} + \sqrt{5}$$

Test your understanding:

$$\frac{12}{\sqrt{3}}$$

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

$$\frac{4\sqrt{2}}{\sqrt{8}}$$

More Complicated Examples:

1.
$$\frac{3}{\sqrt{6}-2}$$

2.
$$\frac{4}{\sqrt{3}+1}$$

$$3. \, \frac{3\sqrt{2} + 4}{5\sqrt{2} - 7}$$

Test Your Understanding: Rationalise the denominator and simplify

1.
$$\frac{4}{\sqrt{5}-2}$$

$$2. \, \frac{2\sqrt{3} - 1}{3\sqrt{3} + 1}$$

3. Solve
$$y(\sqrt{3} - 1) = 8$$

Give your answer in the form $a+b\sqrt{3}$ where a and b are integers.