Rationalizing Denominators

Rationalize each denominator using the conjugate.

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

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

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

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

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

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

$$\frac{4}{2-\sqrt{2}} =$$

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

Rationalizing Denominators

Rationalize each denominator using the conjugate.

$$\frac{2}{2-\sqrt{3}} = 2\left(2+\sqrt{3}\right)$$

$$\frac{2}{3+\sqrt{5}} = 2\left(3-\sqrt{5}\right)$$

$$\frac{3}{5-\sqrt{2}} = \frac{3\left(5+\sqrt{2}\right)}{23}$$

$$\frac{2}{3-2\sqrt{3}} = -\frac{2\left(3+2\sqrt{3}\right)}{3}$$

$$\frac{3}{\sqrt{2}+5} = -\frac{3\left(\sqrt{2}-5\right)}{23}$$

$$\frac{3}{3-2\sqrt{2}} = 3\left(3+2\sqrt{2}\right)$$

$$\frac{4}{2-\sqrt{2}} = 2\left(2+\sqrt{2}\right)$$

$$\frac{5}{5+3\sqrt{2}} = \frac{5\left(5-3\sqrt{2}\right)}{7}$$