

Simplify. a. $(3\sqrt{5} - 2\sqrt{3})(2 + \sqrt{3})$ 65+315-453-259 -2(3)655 + 315 - 413 - 6 b. (5√ 3 - 6)(5√3 + 6) +3013 -3013 - 36 2559 25/3) 75-36 39

Conjugate X+2 X-2 3x-12 3x+12 March 05 2013 3rd.gwb - 3/5 - Tue Mar 05 2013 10:15:58

rationalize the denominator $\frac{5}{\sqrt{5}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{5\sqrt{3}}{\sqrt{9}} = \frac{5\sqrt{3}}{3}$ $\sqrt{\frac{13}{2}} = \frac{\sqrt{13}}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{26}}{\sqrt{4}} = \frac{\sqrt{26}}{2}$ 10 $=\left(\sqrt{5}\right)$ $\frac{\sqrt{8}}{\sqrt{2}} = \sqrt{\frac{2}{2}} = \sqrt{4} = 2$ $\frac{\sqrt{8}}{\sqrt{2}}, \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{16}}{\sqrt{4}} = \frac{4}{2} = 2$ 4 = -45 - 50 $hy p = |eg \sqrt{2}$ 15 = 52 = 52 $45^{2} = 5\sqrt{2}$ $15\sqrt{2} = x$ $\sqrt{45^{2}} = 5\sqrt{2}$ X - $\frac{1}{1550} = X$

Simplify
$$\frac{1-\sqrt{3}}{5+\sqrt{3}} \cdot \frac{5-\sqrt{3}}{5-\sqrt{3}}$$

$$= \frac{5-\sqrt{3}-5\sqrt{5}}{25-5\sqrt{5}+5\sqrt{5}} + \frac{3}{\sqrt{5}}$$

$$= \frac{8-6\sqrt{5}}{25-5\sqrt{5}} = \frac{8-6\sqrt{5}+2}{22+2} + \frac{4-3\sqrt{5}}{11}$$

$$5B. \frac{3-2\sqrt{5}}{6+\sqrt{5}} \cdot \frac{6-\sqrt{5}}{6-\sqrt{5}}$$

$$= \frac{18-3\sqrt{5}-\sqrt{25}}{36-\sqrt{5}} + \frac{6-\sqrt{5}}{6-\sqrt{5}}$$

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$$= \frac{28-15\sqrt{5}}{31}$$

p. 413-414 18-19, 22-23, 34-36, 38-46 Mar. 49, 52-53, 55, 57, 60, 62-63, 72-79 (no calculator)