

Name _____

Rational and Irrational Numbers

Simplify by rationalising the denominator.

(1) $\frac{6 - 4\sqrt{3}}{6 + 4\sqrt{3}}$	(2) $\frac{3 + \sqrt{2}}{3 + \sqrt{2}}$
(3) $\frac{\sqrt{11} + \sqrt{7}}{\sqrt{11} + \sqrt{7}}$	(4) $\frac{4 + 3\sqrt{5}}{4 - 3\sqrt{5}}$
(5) $\frac{7\sqrt{3} - 5\sqrt{2}}{\sqrt{48} + \sqrt{18}}$	(6) $\frac{2\sqrt{6} - \sqrt{5}}{3\sqrt{5} - 2\sqrt{6}}$