

Dividing Radicals (Rationalizing the Denominator) HOMEWORK

1.
$$\frac{4 + 2\sqrt{3}}{\sqrt{9} = 3}$$

$$\boxed{\frac{4 + 2\sqrt{3}}{3}}$$

2.
$$\frac{2 - 5\sqrt{5}}{4\sqrt{13}}$$

$$\boxed{\frac{2\sqrt{13} - 5\sqrt{65}}{52}}$$

3.
$$\frac{3}{4 - 3\sqrt{3}}$$

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

4.
$$\frac{4}{4\sqrt{3} - \sqrt{5}}$$

$$\boxed{\frac{16\sqrt{3} + 4\sqrt{5}}{43}}$$

5.
$$\frac{2 + \sqrt{10}}{\sqrt{2} + \sqrt{5}}$$

$$\boxed{\sqrt{2}}$$

6.
$$\frac{a - \sqrt{b}}{a + \sqrt{b}}$$

$$\boxed{\frac{a^2 - 2a\sqrt{b} + b}{a^2 - b}}$$

7.
$$\frac{6}{3\sqrt{2} - 2\sqrt{3}}$$

$$\boxed{3\sqrt{2} + 2\sqrt{3}}$$

8.
$$\frac{-1 + \sqrt{5}}{2\sqrt{5} + 5\sqrt{2}}$$

$$\boxed{\frac{2\sqrt{5} - 5\sqrt{2} - 10 + 5\sqrt{10}}{30}}$$