

## WS 8.0 - Rationalize, Add, Subtract Radicals

**Simplify.**

1)  $\frac{\sqrt{5}}{3\sqrt{3}}$

2)  $\frac{\sqrt{5}}{\sqrt{2}}$

3)  $\frac{\sqrt{5}}{5\sqrt{10}}$

4)  $\frac{\sqrt{25}}{\sqrt{15}}$

5)  $\frac{\sqrt{8}}{\sqrt{6}}$

6)  $\frac{5\sqrt{2}}{\sqrt{3}}$

7)  $\frac{4}{5\sqrt{2}}$

8)  $\frac{5\sqrt{15}}{\sqrt{10}}$

9)  $3\sqrt{8} + 2\sqrt{24} + 3\sqrt{2}$

10)  $3\sqrt{45} - \sqrt{12} + 3\sqrt{3}$

11)  $-3\sqrt{27} - 2\sqrt{8} + 2\sqrt{2}$

12)  $-2\sqrt{5} + 2\sqrt{54} - 3\sqrt{20}$

13)  $\sqrt{192x}$

14)  $\sqrt{384n}$

15)  $\sqrt{147a^2}$

16)  $\sqrt{343v^2}$

**Find the distance between each pair of points. Leave your answer in simplest radical form.**

17)  $(8, 4), (-1, 1)$

18)  $(2, -8), (8, -4)$