

WS 1.4A Operations with 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. Your answer should be exact.

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

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