

## 2.9 Adding and Subtracting Radicals

Determine the EXACT value of the following

$$7x - 3x$$

a)  $7\sqrt{6} - 3\sqrt{6}$

$$4\sqrt{6}$$

b)  $5\sqrt{3} - 7\sqrt{3} + 4\sqrt{3}$

$$2\sqrt{3}$$

$$\sqrt{9} \cdot \sqrt{5} \quad \sqrt{16} \cdot \sqrt{5}$$

c)  $6\sqrt{45} - 5\sqrt{80}$

$$18\sqrt{5} - 20\sqrt{5}$$

$$-2\sqrt{5}$$

$$\sqrt{4} \cdot \sqrt{5} \quad \sqrt{81} \cdot \sqrt{2}$$

d)  $5\sqrt{20} + \sqrt{162} - 2\sqrt{35} + 3\sqrt{5}$

$$10\sqrt{5} + 9\sqrt{2} - 2\sqrt{35} + 3\sqrt{5}$$

$$13\sqrt{5} + 9\sqrt{2} - 2\sqrt{35}$$

Determine the exact value of

$$\sqrt[3]{125 \cdot \sqrt{2}} \quad \sqrt[3]{64 \cdot \sqrt{2}}$$

$$\sqrt[3]{250} - \sqrt[3]{128}$$

$$5\sqrt[3]{2} - 4\sqrt[3]{2}$$

$$\sqrt[3]{2}$$

- 1
- 8
- 27
- 64
- 125
- ...
- ...
- ...

# **Assignment: Pg.132**

**1-3**

**8 , 12, 15, 16**

**All Odds**