

« سَلِّمْ تَصْحِيحِ الْخِطَابِ بِإِغْنَاءِ »  
 مهلة أولي.

(40)

أولاً:

1) A عشرى و B عادى (5)

2) A عادى و B غير عشرى (5)

3) A  $\sqrt{\frac{27}{4}}$  و B  $\frac{3\sqrt{3}}{2}$  (5)

4) B  $\text{GCD}(b, a-b)$  (10)

ثانياً 1)  $AB = \sqrt{27} + \sqrt{3} = 3\sqrt{3} + \sqrt{3} = 4\sqrt{3}$  (5)

(5)  $= 4\sqrt{3} \text{ cm} / BC = \sqrt{48} = 4\sqrt{3} \text{ cm}$

$AB = BC = 4\sqrt{3}$  هو مربع لذئ ABCD (5)

ب) - قِطْعِ المربع = مجموع أطوال أضلاعه

أ = طول الضلع  $4 \times 4$  (5)

$\Rightarrow$  مساحة المربع =  $4\sqrt{3} \times 4 = 16\sqrt{3} \text{ cm}$  (5)

مساحة المربع = (طول الضلع)<sup>2</sup> (5)

$= (4\sqrt{3})^2 = 16 \times 3 = 48 \text{ cm}$  (5)

2)  $\frac{22}{7} : \frac{22}{7} = 22 \div 11 \times 2 \div 1 \} \text{GCD} = 1$  (5)

$\frac{7}{7} : \frac{7}{7} = 7 \div 7 \times 1 \div 1$  (5)

$\frac{22}{7}$  هو كسر ختلك (10)

$\frac{355}{113} : \frac{355}{113} = 355 \div 5 \times 71 \div 1 \} \text{GCD} = 1$  (5)

$\frac{113}{113} : \frac{113}{113} = 113 \div 113 \times 1 \div 1$  (5)

$\frac{355}{113}$  هو كسر ختلك (10)

3)  $\sqrt{\frac{4}{3}} = \frac{\sqrt{4}}{\sqrt{3}} = \frac{2 \times \sqrt{3}}{\sqrt{3} \times \sqrt{3}} = \frac{2\sqrt{3}}{3}$  (5)

$\sqrt{\frac{36}{12}} = \frac{\sqrt{36}}{\sqrt{12}} = \frac{6 \times \sqrt{12}}{\sqrt{12} \times \sqrt{12}} = \frac{6\sqrt{12}}{12} = \frac{\sqrt{12}}{2} = \frac{2\sqrt{3}}{2} = \sqrt{3}$  (5)

$\sqrt{\frac{288}{144}} = \frac{\sqrt{288}}{\sqrt{144}} = \frac{\sqrt{144 \times 2}}{12} = \frac{12\sqrt{2}}{12} = \sqrt{2}$  (5)

A =  $2\sqrt{108} - \sqrt{75} - \sqrt{48}$

=  $2\sqrt{36 \times 3} - \sqrt{3 \times 25} - \sqrt{16 \times 3}$  (5)

=  $2 \times 6\sqrt{3} - 5\sqrt{3} - 4\sqrt{3} = 12\sqrt{3} - 9\sqrt{3} = 3\sqrt{3}$  (5)

B =  $\sqrt{24} + 6\sqrt{54} - 7\sqrt{150}$

=  $\sqrt{4 \times 6} + 6\sqrt{9 \times 6} - 7\sqrt{25 \times 6}$  (5)

=  $2\sqrt{6} + 6 \times 3\sqrt{6} - 7 \times 5\sqrt{6}$  (5)

=  $2\sqrt{6} + 18\sqrt{6} - 35\sqrt{6} = -15\sqrt{6}$  (5)

5) نضرب العدد x (5)

$$(5) x^2 = 32 \times 2 (5)$$

$$x^2 = 64 \rightarrow x = 8 (5)$$

$$\rightarrow x = -8 (5)$$

العدد هو -8 (5)

6)

$$(5) \sqrt{3^2 \times 8} = \sqrt{9 \times 8} = \sqrt{72} (5)$$

$$(3\sqrt{8})^2 = 9 \times 8 = 72$$

$$\sqrt{72}$$

240 و 840

|     |     |     |     |     |   |
|-----|-----|-----|-----|-----|---|
| 840 | 600 | 360 | 120 | 120 | 0 |
| 240 | 240 | 240 | 240 | 120 |   |

$$\text{GCD}(840, 240) = 120 (5)$$

$$(5) \frac{240}{120} = \frac{2}{1} (5)$$

$$(5) \frac{840}{120} = \frac{7}{1}$$

$$400 \times 1,5$$