



- ۱

حل:

$$\frac{[6,1]}{(24,6)} = \frac{6}{6} = 1$$

- ۲

حل:

$$6 \times 3 / 14 \times 10 = 188 / 4 \times 10000 = 1884000 + \pi r^2 \quad \text{مساحت جانبی}$$

$$\pi r^2 \quad \text{سقف}$$

- ۳

حل:

$$\text{حجم } s = \text{قاعده } h \times x \leftarrow 32 = 8 \times x \leftarrow x = 4$$

- ۴

حل:

$$\text{الف) } 9 - 8 + 18 = 19$$

$$\text{ب) } 125 + 25 - 16 = 134$$

$$\text{ج) } \frac{4}{9} \times \frac{16 \times 4}{6 \times 6 \times 6} = \frac{16 \times 4}{6 \times 9 \times 9} = \frac{32}{9 \times 9 \times 3}$$

$$\text{د) } 125 - (8 - 1) = 125 - 7$$

- ۵

حل:

$$\text{الف) } 5^3 \times 5^{-3} = 5^0 = 1$$

$$\text{ب) } 3^5 \times 7^5 = 21^5$$

$$\text{ج) } 0 / 2^7$$

$$\text{د) } (1/5)^{11}$$

- ۶

حل:

$$b \div a = 20 \quad , \quad ab = 5 \leftarrow b = 10 \quad , \quad a = \frac{5}{10}$$

$$3(-1)(1)(4) + 5(-1)(1)(2) = -12 - 10 = -22$$

- ٧  
حل:

$$\text{الف) } 4000 + 200 + 3 = 4203$$

$$\text{ب) } 3000 + 200 + 50 + 6 = 3256$$

- ٨  
حل:

٢٧ (ب)

٥<sup>١١</sup> (الف)

- ٩

حل:

$$(-1/2)^2 = 1/4$$

$$(-1/2)^3 = 1/8$$

- ١٠  
حل:

$$1/4 - 1/8 = 1/8$$

$$\sqrt{36+64} = 10$$

$$\sqrt{18 \div 2} = 3$$

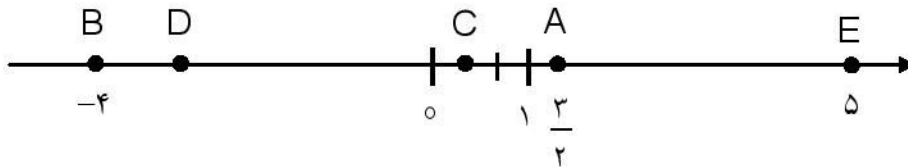
$$\sqrt{8 \times 2} = 4$$

$$\sqrt{4+9} = 5$$

- ١١  
حل:

$$\sqrt{82-1} = 9$$

$$\sqrt{25-16} = 3$$



- ١٢  
حل:

$$\left[ \frac{(-1/5)^6}{2} \right] = \frac{1}{5} \div 2^2$$

$$\text{قرينه} \rightarrow -5^{-2} = \text{مكعب} -5^{-6} \xrightarrow{\text{نصف}} (-1/5)^6 \div 2$$

- ١٣  
حل:

$$9^9 = 3^{18} \rightarrow (3^3)^6$$

- ١٤  
حل: