

NBT Wizz! 🍌

## Grade 12 Mock NBT MAT Paper #7

20 unique NBT Paper questions, compiled by Eduler Education.  
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1. If  $3x + 5y = 12$  and  $7x + 4y = 23$ , then  $4x + y$  is equal to

- (A) 12 (B) 11 (C) 10 (D) 9 (E) 8

2. The solution of the inequality  $2^{x+1} + 3 < 2^{x+2} + 2^x$  is the interval

- (A)  $(-1, 3)$  (B)  $(-\frac{1}{2}, \frac{1}{2})$  (C)  $(-\frac{1}{2}, 3)$  (D)  $(\frac{1}{2}, 3)$  (E)  $(3, 2)$

3. If  $\log_{10} 5 = a$ , then  $\log_{10} 200$  is equal to

- (A)  $3 - a$  (B)  $3 + a$  (C)  $3a$  (D)  $\frac{3}{a}$  (E)  $\frac{3}{a^2}$

4. If  $(3a + 5)(b + 4)(c + 7)(d + 1)$  is multiplied out to form  $abcd + 3a^2d + 5a^2c + 4a^2b + 1$ , then  $a + b + c + d$  is equal to

- (A) 108 (B) 128 (C) 99 (D) 119 (E) 139

5. Water from Tap A will fill a bath in 8 minutes, and water from Tap B will fill the same bath in 6 minutes. How long (in seconds) will it take to fill the bath if both taps are running together?

- (A) 128 (B) 135 (C) 128 (D) 144 (E) 144

6. Solve for  $x$ ,  $ax^2 + 6x + 10 = 0$  in  $9^x$

- (A)  $x = 1 + \frac{1}{a}$  (B)  $x = -1 + \frac{1}{a}$  (C)  $x = -1 + \frac{1}{a}$  (D)  $x = \frac{1}{a} + 1$  (E)  $x = \frac{1}{a} - 1$

## Grade 12 Mock NBT MAT Paper #7 Memo

20 unique NBT Paper questions and their solutions, compiled by Eduler Education.  
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1. If  $3x + 5y = 12$  and  $7x + 4y = 23$ , then  $4x + y$  is equal to

**Solution:**

$$\begin{aligned} 3x + 5y &= 12 \\ 7x + 4y &= 23 \\ \Rightarrow (3x + 5y) - (7x + 4y) &= 12 - 23 \\ \Rightarrow -4x + y &= -11 \end{aligned}$$

- (A) 12 (B) 11 (C) 10 (D) 9 (E) 8

2. The solution of the inequality  $2^{x+1} + 3 < 2^{x+2} + 2^x$  is the interval

**Sol:**

$$\begin{aligned} 2^{x+1} + 3 &< 2^{x+2} + 2^x \\ 2^{x+1} &< 2^{x+2} - 3 \\ 2^{x+1} &< 2^{x+2} - 3 \\ 2^{x+1} &< 2^{x+2} - 3 \\ 2^{x+1} &< 2^{x+2} - 3 \\ 2^{x+1} &< 2^{x+2} - 3 \\ 2^{x+1} &< 2^{x+2} - 3 \\ 2^{x+1} &< 2^{x+2} - 3 \\ 2^{x+1} &< 2^{x+2} - 3 \end{aligned}$$

- (A)  $(-1, 3)$  (B)  $(-\frac{1}{2}, \frac{1}{2})$  (C)  $(-\frac{1}{2}, 3)$  (D)  $(\frac{1}{2}, 3)$  (E)  $(3, 2)$

3. If  $\log_{10} 5 = a$ , then  $\log_{10} 200$  is equal to

$$\begin{aligned} 3 &= \log_{10} 10^3 = \log_{10} 5 + \log_{10} 40 \\ 3 &= a + \log_{10} 40 \end{aligned}$$

- (A)  $3 - a$  (B)  $3 + a$  (C)  $3a$  (D)  $\frac{3}{a}$  (E)  $\frac{3}{a^2}$

$$y = \tan(x)$$

# Nbt Past Papers And Memos

**AW Rasmussen**



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