



ALG 2 Bellwork

Wednesday, March 11, 2020

13

If $x > 3$, which of the following is equivalent

to $\frac{1}{\frac{1}{x+2} + \frac{1}{x+3}}$?

A) $\frac{2x+5}{x^2+5x+6}$

B) $\frac{x^2+5x+6}{2x+5}$

C) $2x+5$

D) x^2+5x+6

15

If $(ax+2)(bx+7) = 15x^2 + cx + 14$ for all values of x , and $a+b=8$, what are the two possible values for c ?

A) 3 and 5

B) 6 and 35

C) 10 and 21

D) 31 and 41

14

If $3x - y = 12$, what is the value of $\frac{8^x}{2^y}$?

A) 2^{12}

B) 4^4

C) 8^2

D) The value cannot be determined from the information given.



ALG 2 Bellwork

Wednesday, March 11, 2020

13

If $x > 3$, which of the following is equivalent

$$\text{to } \frac{1}{x+2} + \frac{1}{x+3} ? \quad \frac{(x+2)(x+3)}{(x+2)(x+3)}$$

$$\begin{aligned} A) \frac{2x+5}{x^2+5x+6} \\ B) \boxed{\frac{x^2+5x+6}{2x+5}} \\ C) 2x+5 \\ D) x^2+5x+6 \end{aligned}$$

15

If $(ax+2)(bx+7) = 15x^2 + cx + 14$ for all values of x , and $a+b=8$, what are the two possible values for c ?

- A) 3 and 5
- B) 6 and 35
- C) 10 and 21
- D) 31 and 41

$$ax \cdot bx = 15x^2$$

$$\underline{a \cdot b} x^2 = \underline{15} x^2$$

$$ab = 15$$

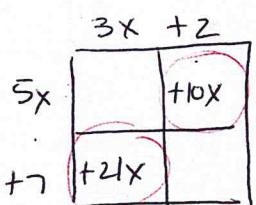
$$a+b = 8$$

2 #'s that multiply to 15 and add to 8.

$a \neq b$ are 3 & 5

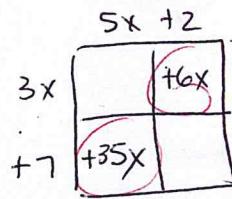
THE 2 possibilities are

$$(3x+2)(5x+7) \text{ AND } (5x+2)(3x+7)$$



middle term

$$31x$$



middle term

$$41x$$

c could be 31 & 41

CONTINUE