12/13/08 - Chiles Mini Ma Solutions - Algebra I

$$\frac{x^2 - 5x + 6}{x^2 - x - 2} = \frac{(x - 3)(x - 2)}{(x + 1)(x - 2)} = \frac{x - 3}{x + 1}$$

$$6 | 5x^{52}yz^{120} = 3.5 \cdot x^{52} \cdot y \cdot z^{120}$$

$$6 x^{26}z^{10} = 3 \cdot 2 \cdot x^{26} \cdot z^{10}$$

$$6 CF = 3 \cdot x^{26} \cdot x^{0} \cdot z^{10} = 3 x^{16}z^{10}$$

For each positive factor, there is an equivalent negative factor, so all cancel each other out.

$$\left(\frac{1}{f_1} + \frac{1}{f_1}\right) + \left(\frac{1}{f_2} + \frac{1}{f_2}\right) + \dots = 0$$

Dx = original 3x= y-1 y =3x +1

A) 52 = 3(17) H Yes A B) 45 = 3(11)+1 No C) 101 = 3(19)+1 No

D) 22 = 3(13)+1 No

13 2 < 57 < 3 JT6 = 4 A) 2 < 57, 50 NO CI B) 2.22 = 484<7 NO CI E) 3.2" = 10.2477 YES D) 4.1 >4 NO

(3.2 + 3-2) = 7(4) (7.747-7)=49

(5) x2+3x2-4= 4x2-4= 4(x2-1) = 4(x+1)(x-1) B

(16) They first meet will be after Live and Aisa run 70% meters combined. Each neet is 3(t)+4(t)=570
or when +=10. They meet every
19 seconds, so 10.7 = 5 seconds 10

(1) x - = = = = = = x (3x)-3(3x)=3(3x)=2x=12

x=30 3 $(18) \frac{37}{(37+74)} = \frac{37}{111} = \frac{1}{3}$

19 c is children in the house
19 c is a nulliple of 7, since a mod 7=0

the ones digit of a is either 3 or 8 because of the other condition
the smallest number like this is 28. 94-28=71 D

203x+1>4 3×73 ×7 -3x-1>4 -3x>5 x<-\$ X>1 U X<- 3 A

(1) 3 x+y=3 x+3y=9 B

15.5= 15.5= 5.5 A

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23)
$$4 \times^{2} + 3 \times -4 = 0$$

 $-3 \pm \sqrt{9 - 4(4)(4)}$
 $-3 \pm \sqrt{73}$

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$$\frac{-2b}{2a} = -\frac{b}{a} = \frac{5}{3} \quad \boxed{C}$$

$$\sqrt{(5-0)^2 + (-5)^2} = \sqrt{50} = \sqrt{25} \cdot \sqrt{2} = 5\sqrt{2} \quad |A|$$

(26) m of other line =
$$\frac{2-0}{1-0} = 2$$

m of this line = $-\frac{1}{2}$
 $y = 1 = -\frac{1}{2}(x-1)$
 $y = -\frac{1}{2}x + \frac{3}{2}$

27 In 1 hour, the mayor can mow is lawns, and Jojo can move is lawns.
Together, they can mow

(1) (2) and (0,1) (1,2)

[8]

$$(29)$$
 $y = 2x$ $2x = x + 3$
 $y = x + 3$ $x = 3$
 $y = 2(3) = 6$

$$\begin{array}{c}
(3,6) \\
\hline{(3)} \\
\sqrt{8} = \sqrt{2^{\frac{5}{2}}} = \sqrt{2^{\frac{5}{2}}} \cdot \sqrt{2} = 2\sqrt{2} \\
\hline{(3)}
\end{array}$$

(3)