

$$5-5x = -4x+8
+5x
-8
-3 = x$$

$$5(1-3) = -2(2\cdot 3-4)$$

 $5(1+3) = -2(-6-4)$
 $5(4) = -2(-10)$
 $20 = 20$

Check:

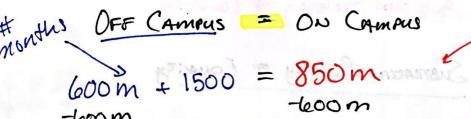
Problems 1-5 all had one solution. Could an equation have no solution? Could it have more than one solution? What would this look like? (WE WILL FINISH ON WED, 9/4)

6.
$$3(1-x)+5x=2(x+1)$$

7.
$$\frac{1}{3}(12x-21)=4x-7$$

Colleen is going away to college and has two different living options. The apartments off campus are \$600 a month with a \$1,500 one time deposit. The on campus apartments are \$850 a month with no deposit) After

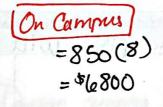
now many months would the cost of living be the same? Identify units please.

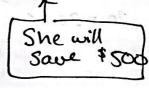


$$\frac{1500}{150} = \frac{150m}{150}$$

If she only lives there for 8 months where should she live? How much money will she save living in one

apartment over another in 8 months?





5/1+3)=-21-6-4

(B-8-8)5-=(8--

Ticket out the Door

A Cheetah can run at top speed for only about 20 seconds. If a Gazelle is too far away for the Cheetah to catch in 20 seconds, the Gazelle is probably safe. Your friend claims the Gazelle will not be safe if the Cheetah starts running 650 feet behind the Gazelle. Is your friend correct? Explain. Show work. (Remember Cheetah runs 90ft/sec and Gazelle run 60ft/sec.)