## DCA (A.CED.A) Review #1

For problems 1 and 2, solve for x. Show all required work.

1) 7x - 12 = -3x + 48

**2)** What is the solution to the inequality

4(6-2x) > 32

- **a.** x < -1
- **b.** x < 1
- **c.** x > -1
- **d.** x > 1

Answer:\_\_\_\_\_

Answer:\_\_\_\_\_

**3)** What is the x-intercept for the equation -8x - 12y = 24? Show your work.

Answer: (. , )

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4) Naala has \$1,200 in her savings account and is withdrawing \$25 per week. Write an equation that represents this situation, where y is the amount Naala has in her savings account after x weeks.	5) Franklin the Ferret is in his den, which is 20 feet below ground level. He starts up the tunnel toward the surface, and is climbing at a rate of 2 feet per second. Write an equation that represents this situation, where y is Franklin's position relative to ground level after x minutes.
Answer:	Answer:
6) Cate and Paulette have invited 50 people to their wedding so far, and plan to invite at most y people. They are sending out 10 wedding invitations per day. Write an inequality that represents this situation, where x is the number of days.	7) Harvey has \$1,200 in his savings account and is withdrawing \$25 per week. He needs to keep at least y dollars in his account. Write an inequality that represents this situation, where x is the number of weeks.
Answer:	Answer:

Exemplary – This problem will take you to Exemplary <u>if</u> you are Meeting on the rest of the test. **8) Solve. Show all required work.** 

|-2x + 10| < 22