**Senior Math**  Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Review - Cell Phone Applications*  Hr\_\_\_\_\_\_\_\_\_\_\_

For #1-2, determine which cell phone plan would be a cheaper option. Make sure to calculate the cost of each before you make your decision. After, graph both plans and find the # of talking minutes when both plans are the same price.

1. A) Jacob talks on average 692 minutes per month.

Plan A: $45 monthly charge, 600 minutes included, $0.11/min after 600

Plan B: $60 monthly charge, 800 minutes included, $0.10/min after 800

Circle the Cheaper Option A B

B) Write the piecewise equations for both plans. C) Graph both cell phone plans.

Plan A:



Plan B:



D) Find the # of talking minutes when both plans are the same price.

E) When would plan A be cheaper? When would plan B be cheaper?

1. A) Ashley talks on average 718 minutes per month.

Plan A: $35 monthly charge, 500 minutes included, $0.10/min after 500

Plan B: $50 monthly charge, 600 minutes included, $0.08/min after 600

Circle the Cheaper Option A B

B) Write the piecewise equations for both plans. C) Graph both cell phone plans.

Plan A:



Plan B:



D) Find the # of talking minutes when both plans are the same price.

E) When would plan A be cheaper? When would plan B be cheaper?

1. A) Frank talks on average 428 minutes per month.

Plan A: $15 monthly charge, no minutes included, $0.09/min

Plan B: $60 monthly charge, 800 minutes included, $0.15/min after 800

Circle the Cheaper Option A B

B) Write the piecewise equations for both plans. C) Graph both cell phone plans.

Plan A:



Plan B:



D) Find the # of talking minutes when both plans are the same price.

E) When would plan A be cheaper? When would plan B be cheaper?