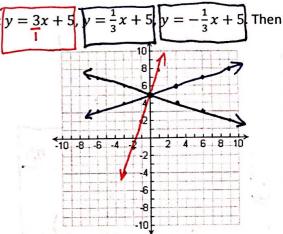
Name:	KEY	

TNReady Mixed Skills Review

1) Explain, in words, the differences in graphing the following equations: y = 3x + 5graph them all on the coordinate plane.

They all have a yintercept at 5. From there, the first equation would go up 3, right 1. The second equation would go up 1, right 3.

The third equation would go down 1, right 3.



2) Harold baked some cookies, then brought them to a potluck. The cookies were eaten at a constant rate. After 10 minutes, there were 40 cookies left. After 14 minutes, there were 24 cookies left

a) How many cookies were eaten per minute?

b) How many cookies were there on the tray originally?

c) Use your answers for a & b to write an equation in slope-intercept form. Identify what x and y represent in your Y = -4x + 80

equation.

3) Is this a function? Explain why or why not. (5, 10); (6, 13); (7, 13); (8, 15)

4) When is a decimal rational, and when is it irrational? Explain in words. Give examples.

Any terminating decimal is rational: 0.25, -9.1, 10.758623 Any repeating decimal is rotional: 0.4, 2.985, 3.474747...

Non-repeating, non-terminating decimals are irrational: 1.94265578..., 3.1415926..

5) When is a square or cube root rational, and when is it irrational? Explain in words. Give examples.

Square or cube roots are rational when they come out-osexact answers: 125, 1144, 3/8 They are irrational when they are not exact answers (decimals): \square, \s

6) Solve the equation:
$$-5(2x-3) + 12x = -4x + 9$$

$$-5(2x-3)+12x = -4x+9$$

$$-10x+15+12x = -4x+9$$

$$-10x+15=-4x+9$$

$$+4x + 15=-4x+9$$

$$+4x + 15=-4x+9$$

$$-15=-15$$

$$-15=-15$$

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