



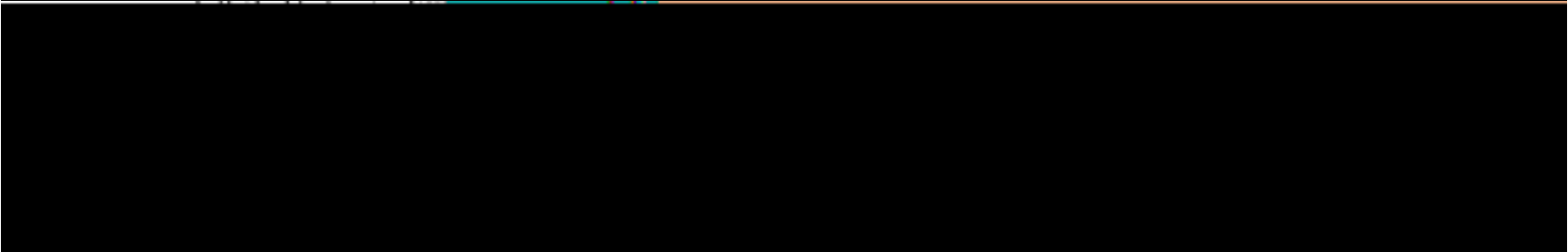
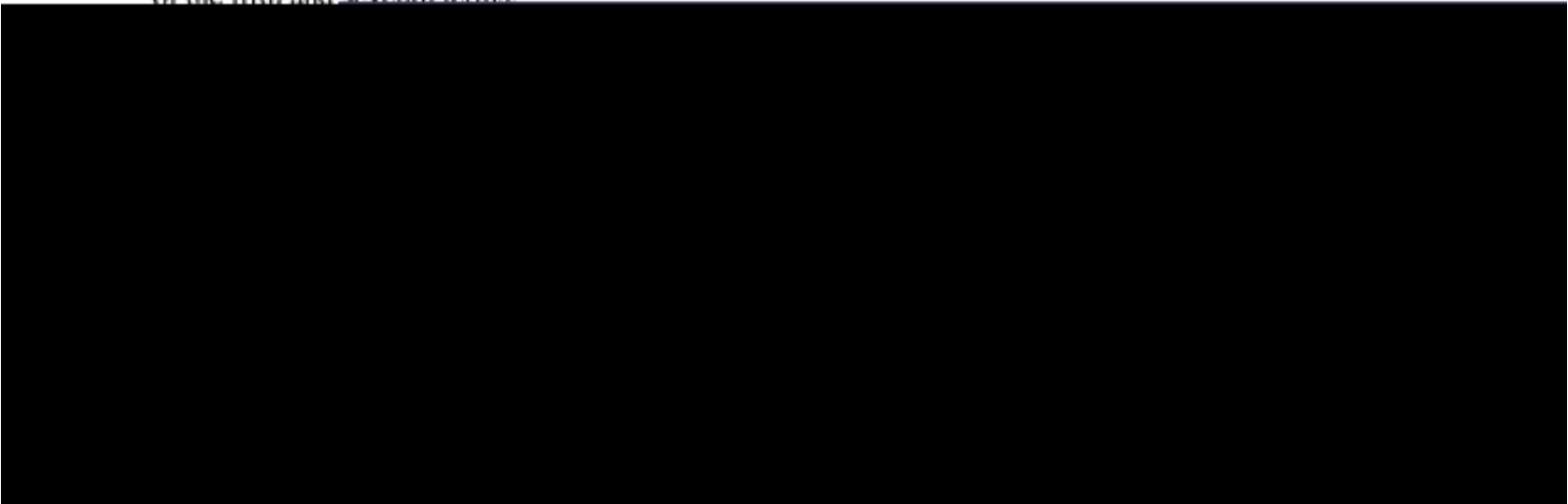
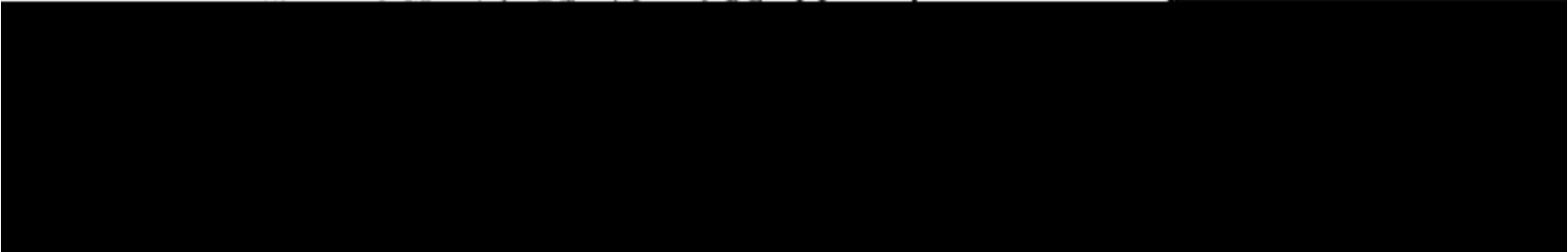
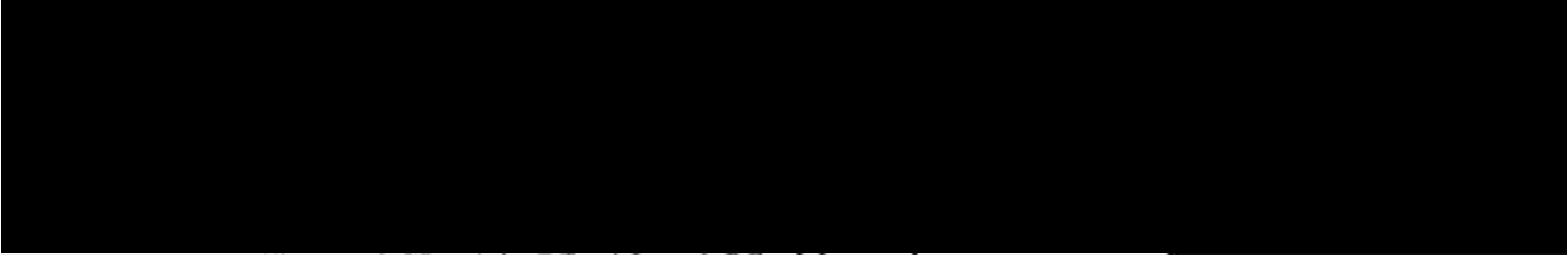
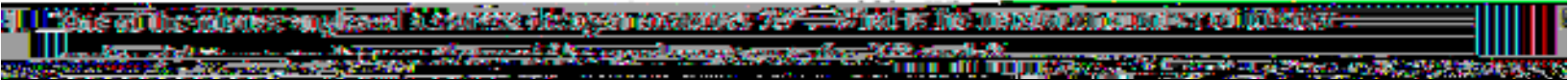
measurement are required. Each problem has the same point-value.

1. Given $f(x) = 2x^2 - 5x + 3$ and $g(x) = x^2 - 4x + 6$, find $(f+g)(x)$.

Find the value of k such that the system of equations $kx + 3y = 2$ and $3x + ky = 2$ has no solution. Express your answer in the form $k = \frac{a}{b}$, where a and b are coprime positive integers. Find the value of $a + b$.

the value of k . Express your answer as an exact decimal.

2. A line is drawn through the origin and perpendicular to the line $3x + 4y = 10$. Find the equation of this line.



Name: _____

Team Code: _____

2015 Feb QIP M. A. S. S. I. G.

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