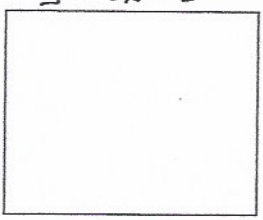
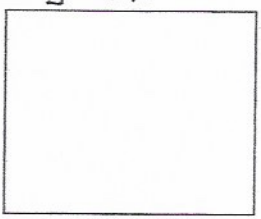
SRHS - Math 1 - Worksheet #10.06

Use a graphing calculator to plot both of the given equations in the same viewing window. Copy what you see on the calculator screen into each of the provided areas...

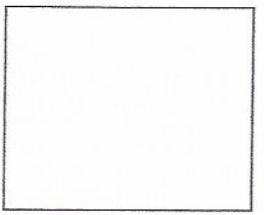
① $y = 2x + 1$
$y = 2x - 3$



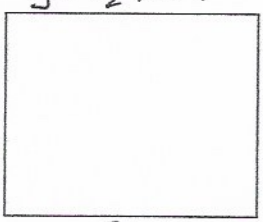
② $y = 3x - 5$
$y = 3x$



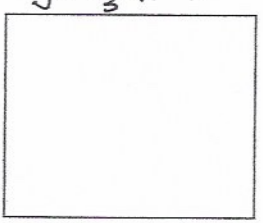
③ $y = 3$
$y = -1$



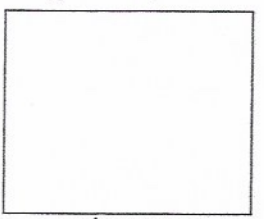
④ $y = \frac{1}{2}x + 4$
$y = \frac{1}{2}x + 1$



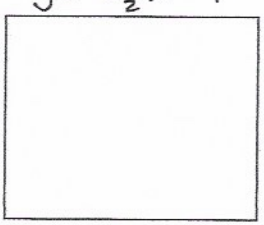
⑤ $y = \frac{2}{3}x + 2$
$y = \frac{2}{3}x - 3$



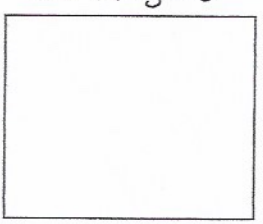
⑥ $y = -2x + 1$
$y = -2x - 2$



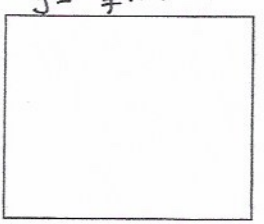
⑦ $y = \frac{2}{3}x + 2$
$y = -\frac{3}{2}x - 1$



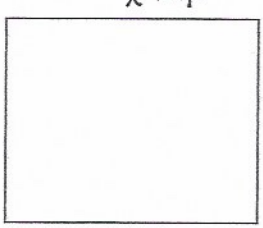
⑧ $2x + 3y = 6$
$3x + 2y = 6$



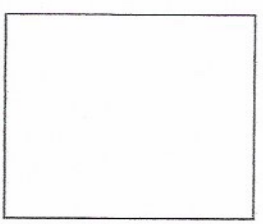
⑨ $y = \frac{4}{7}x + 17$
$y = -\frac{4}{7}x + 19$



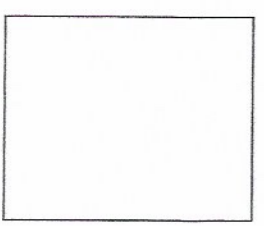
⑩ $y = \frac{x+3}{x^2-4}$



⑪ $y = 7\sin(x^2)$



⑫ $y = x + \ln(\sin(x))$



Write the equation of the line with the given information:

(13) slope = 5 and y-intercept of 2

(14) slope = $\frac{2}{3}$ through point (5, 7)

(15) slope = $\frac{4}{7}$ through point (-11, 17)

(16) slope = 8 and y-intercept of 0

(17) parallel to $y = \frac{5}{9}x + 11$ through point (10, 48)

(18) parallel to $y = -\frac{3}{8}x - 12$ through point (6, 18)

(19) perpendicular to $y = \frac{4}{11}x - 8$ through point (4, 2)

(20) perpendicular to $y = 6x - 5$ through point (-1, 8)

(21) through points (0, 5) and (7, 5)

(22) through points (3, 8) and (3, 17)

(23) slope = 1 and y-intercept of 0