

Chapter 7 Quest REVIEW

1.

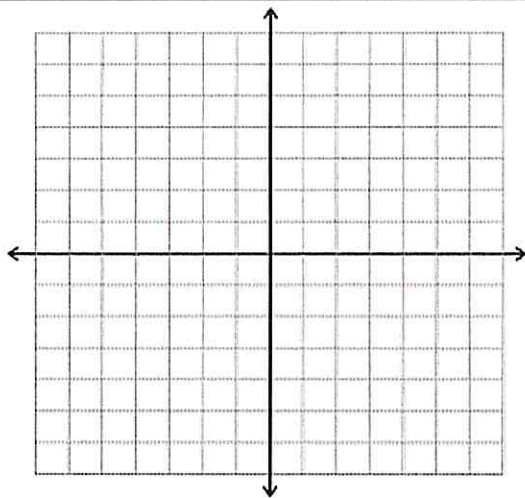
Solve the system of linear equations by graphing

$$y = 2x - 3$$

$$y = x - 1$$

(Calculator hint: Both equations must be in $y = mx + b$)

Solution: (2, 1)



2.

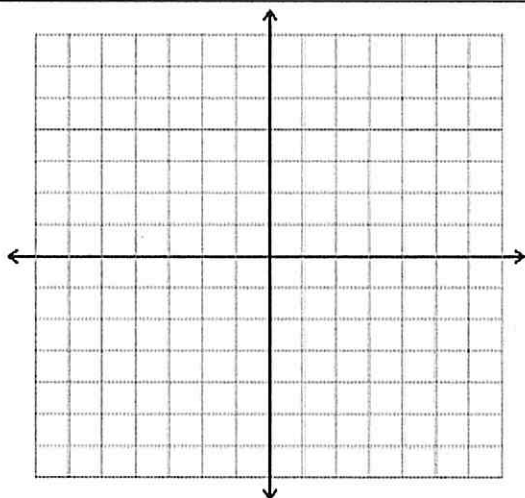
Solve by graphing

$$y = -2x + 1$$

$$y = -2x - 1$$

(Calculator hint: Both equations must be in $y = mx + b$)

Solution: no solution



3.

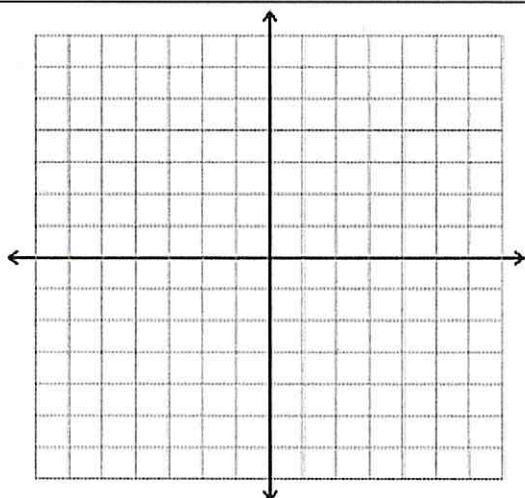
Solve by graphing

$$y = \frac{3}{4}x + 2$$

$$\frac{3}{4}x - y = -2$$

(Calculator hint: Both equations must be in $y = mx + b$)

Solution: inf. many solutions



<p>4. Solve using substitution. $y = -4x - 8$ $y = x + 7$</p>	<p>Would the graph of the S.O.E. be</p> <p>SAME INTERSECTING PARALLEL</p> <p>Solution <u>$(-3, 4)$</u></p>
<p>5. Solve using substitution. . $y = 2x$ $7x - y = 15$</p>	<p>Would the graph of the S.O.E. be</p> <p>SAME INTERSECTING PARALLEL</p> <p>Solution <u>$(3, 6)$</u></p>
<p>6. Solve using elimination. $x + 2y = 9$ $3x + 2y = 7$</p>	<p>Would the graph of the S.O.E. be</p> <p>SAME INTERSECTING PARALLEL</p> <p>Solution <u>$(4, 8)$</u></p>

7.

The length of a rectangle is half of its width.
The perimeter of the rectangle is 90 cm. Find
the dimensions of the rectangle.

(Remember: $P = 2L + 2W$)

Solution: $l = 15$ $w = 30$

8.

Sabrina has \$5.00 in her bank account and
begins saving \$2.00 every week. Ali has
\$30.00 in his account and is withdrawing \$3.00
every week. When will their account balances
be the same?

Solution: 5 weeks

9.

Solve using elimination.

$$8x - 9y = 19$$

$$4x + y = -7$$

Would the graph of the S.O.E. be

SAME INTERSECTING PARALLEL

Solution: $(-1, -3)$

10.
Solve using elimination.
 $x + 2y = 7$
 $3x - 2y = -3$

Would the graph of the S.O.E. be
SAME INTERSECTING PARALLEL

Solution: (1, 3)

11.
Ali has 35 coins that are all quarters and dimes. The value of the coins is \$5.75. How many dimes and nickels does Ali have?

Solution: dimes = 20 quarters = 15

12.
Yahya works at Target. Pumpkin erasers cost \$.60 each and ghost erasers cost \$.40 each. One day he sold a total of 350 pumpkin and ghost erasers for \$170.00. How many pumpkin erasers did Yahya sell?

pumpkin erasers = 150
ghost erasers = 200
Solution: _____