

Practice

Graphing: Graphs of Data

Answer these problems, then check your answers using the key on the next page. If you missed something, look at the solutions after the answer key, and if you still don't understand, watch the review video again.

#1) Find the coordinates to points A, B, F, D, G, and K:

Point A:

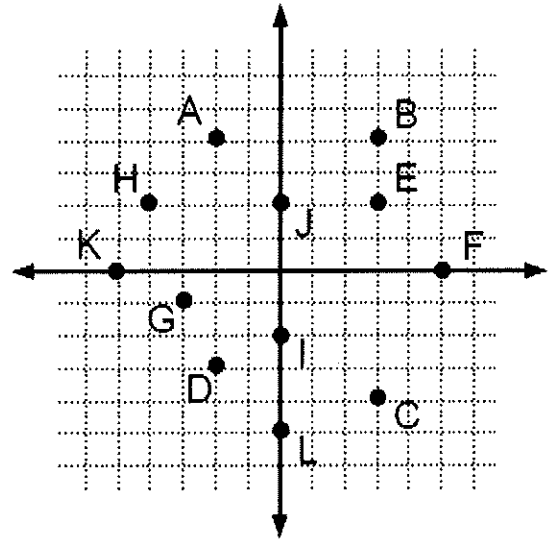
Point B:

Point F:

Point D:

Point G:

Point K:

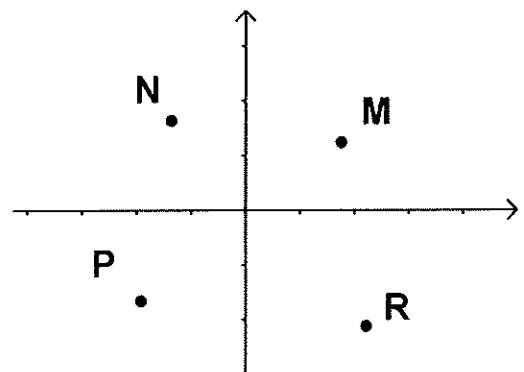


#2) Find the letter of the point at (3, 2)

#3) Find the letter of the point at (-4, 2)

#4) In the graph, which of the following conditions are true for point M?

- a) $x > 0, y < 0$
- b) $x > 0, y > 0$
- c) $x = 0, y = 0$
- d) $x < 0, y > 0$
- e) $x < 0, y < 0$

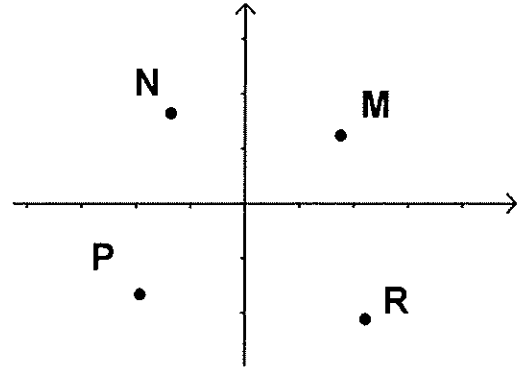


#5) In the graph, which of the following conditions are true for point N?

- a) $x > 0, y < 0$
- b) $x > 0, y > 0$
- c) $x = 0, y = 0$
- d) $x < 0, y > 0$
- e) $x < 0, y < 0$

#6) In the graph, which of the following conditions are true for point P?

- a) $x > 0, y < 0$
- b) $x > 0, y > 0$
- c) $x = 0, y = 0$
- d) $x < 0, y > 0$
- e) $x < 0, y < 0$



#7) In the graph, which of the following conditions are true for point R?

- a) $x > 0, y < 0$
- b) $x > 0, y > 0$
- c) $x = 0, y = 0$
- d) $x < 0, y > 0$
- e) $x < 0, y < 0$

#8) If $xy = 1$, which of the following conditions must also be true? (multiple answers may be correct)

- a) $x > 0, y < 0$
- b) $x > 0, y > 0$
- c) $x = 0, y = 0$
- d) $x < 0, y > 0$
- e) $x < 0, y < 0$

#9) If $\frac{x}{y} = 1$, which of the following conditions must also be true? (multiple answers may be correct)

- a) $x > 0, y < 0$
- b) $x > 0, y > 0$
- c) $x = 0, y = 0$
- d) $x < 0, y > 0$
- e) $x < 0, y < 0$

#10) If $xy = -1$, which of the following conditions must also be true? (multiple answers may be correct)

- a) $x > 0, y < 0$
- b) $x > 0, y > 0$
- c) $x = 0, y = 0$
- d) $x < 0, y > 0$
- e) $x < 0, y < 0$

Answers:

#1) $A:(-2, 4)$ $B:(3, 4)$ $F:(5, 0)$ $D:(-2, -3)$ $G:(-3, -1)$ $K:(-5, 0)$

#2) E

#3) H

#4) b

#5) d

#6) e

#7) a

#8) b and e

#9) b and e

#10) a and d

Solutions:

#1) Find the coordinates to points A, B, F, D, G, and K:

Point A: $(-2, 4)$ *xy ← (x is on left)*

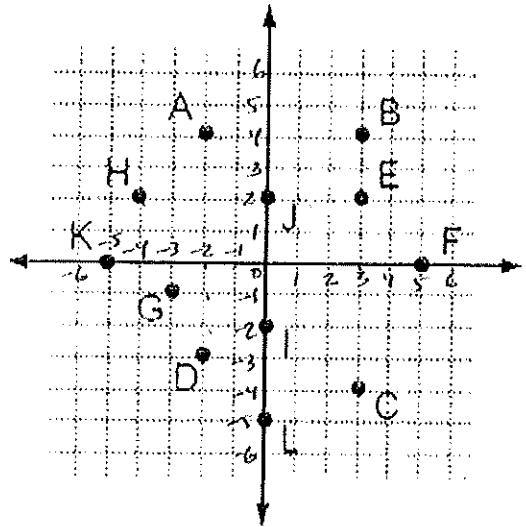
Point B: $(3, 4)$

Point F: $(5, 0)$

Point D: $(-2, -3)$

Point G: $(-3, -1)$

Point K: $(-5, 0)$

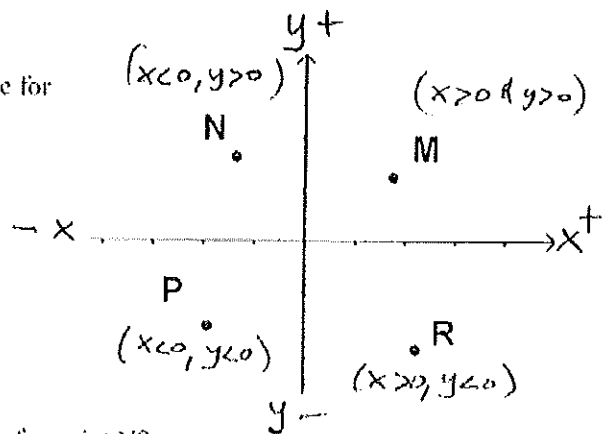


#2) Find the letter of the point at $(3, 2)$ E

#3) Find the letter of the point at $(-4, 2)$ H

#4) In the graph, which of the following conditions are true for point M?

- a) $x > 0, y < 0$
- b) $x > 0, y > 0$
- c) $x = 0, y = 0$
- d) $x < 0, y > 0$
- e) $x < 0, y < 0$



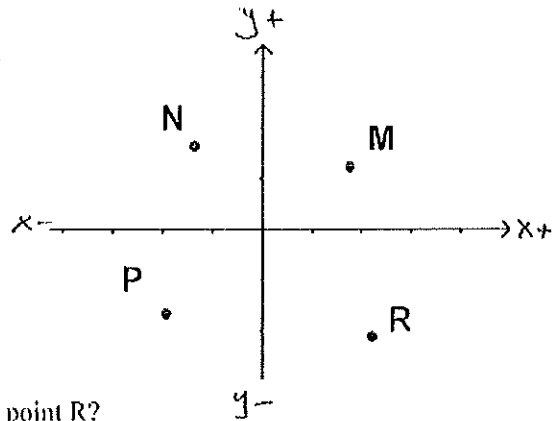
#5) In the graph, which of the following conditions are true for point N?

- a) $x > 0, y < 0$
- b) $x > 0, y > 0$
- c) $x = 0, y = 0$
- d) $x < 0, y > 0$
- e) $x < 0, y < 0$

#6) In the graph, which of the following conditions are true for point P?

- a) $x > 0, y < 0$
- b) $x > 0, y > 0$
- c) $x = 0, y = 0$
- d) $x < 0, y > 0$

e) $x < 0, y < 0$



#7) In the graph, which of the following conditions are true for point R?

a) $x > 0, y < 0$

b) $x > 0, y > 0$

c) $x = 0, y = 0$

d) $x < 0, y > 0$

e) $x < 0, y < 0$

#8) If $xy = 1$, which of the following conditions must also be true? (multiple answers may be correct)

a) $x > 0, y < 0$

b) $x > 0, y > 0$

c) $x = 0, y = 0$

d) $x < 0, y > 0$

e) $x < 0, y < 0$

1 is positive
 so x & y must either be both positive $(+)(+) = (+)$
 or both negative $(-)(-) = (+)$
 so either $x > 0$ and $y > 0$
 or $x < 0$ and $y < 0$

b or e is true

#9) If $\frac{x}{y} = 1$, which of the following conditions must also be true? (multiple answers may be correct)

a) $x > 0, y < 0$

b) $x > 0, y > 0$

c) $x = 0, y = 0$

d) $x < 0, y > 0$

e) $x < 0, y < 0$

same as #8, 1 is positive
 divide is same as multiply, both x & y are positive
 or both are negative

b or e is true

#10) If $xy = -1$, which of the following conditions must also be true? (multiple answers may be correct)

a) $x > 0, y < 0$

b) $x > 0, y > 0$

c) $x = 0, y = 0$

d) $x < 0, y > 0$

e) $x < 0, y < 0$

if $xy = -1$, -1 is negative.
 so for x and y one must be positive
 and the other negative
 so either $x > 0$ and $y < 0$
 or $x < 0$ and $y > 0$

a or d is true