Name_____

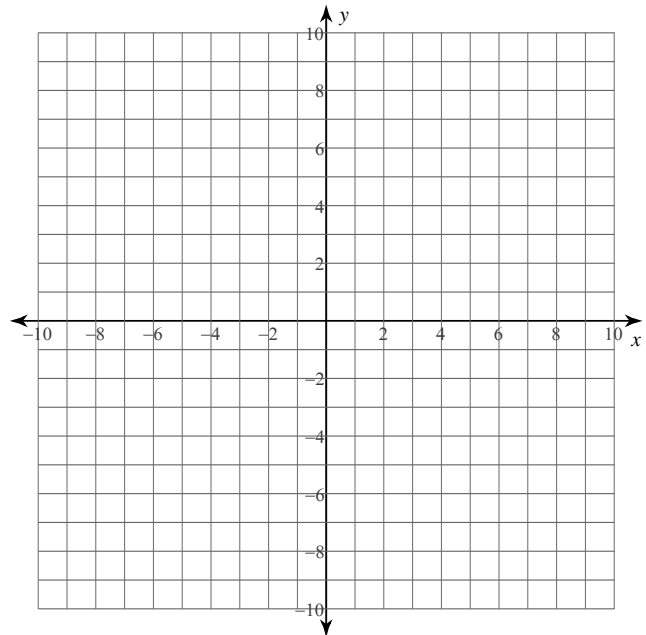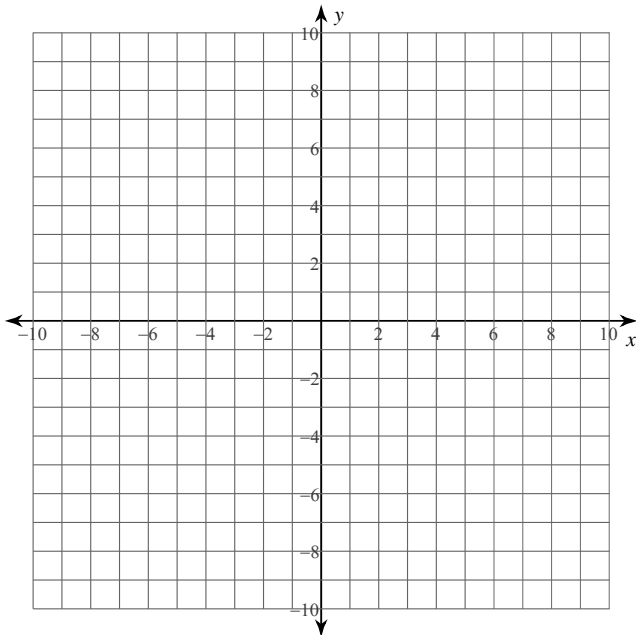# Points in the Coordinate Plane

Date_____ Period_____

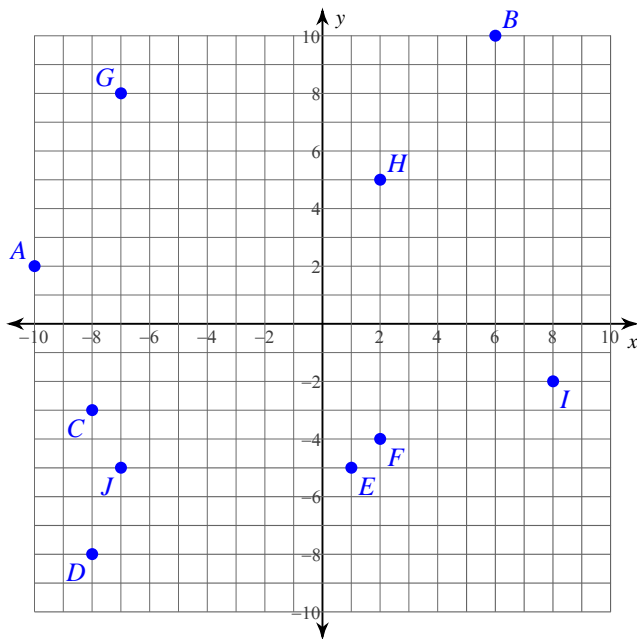**Plot each point.**

1) $J(5, 10)$     $I(1, 9)$     $H(6, -9)$
   $G(-6, 8)$     $F(9, 0)$     $E(-6, 0)$
   $D(-8, -4)$     $C(5, 0)$     $B(-1, -1)$
   $A(-8, -1)$

2) $A(7, 10)$     $B(0, 4)$     $C(-1, 10)$
   $D(-6, -6)$     $E(10, 0)$     $F(9, 7)$
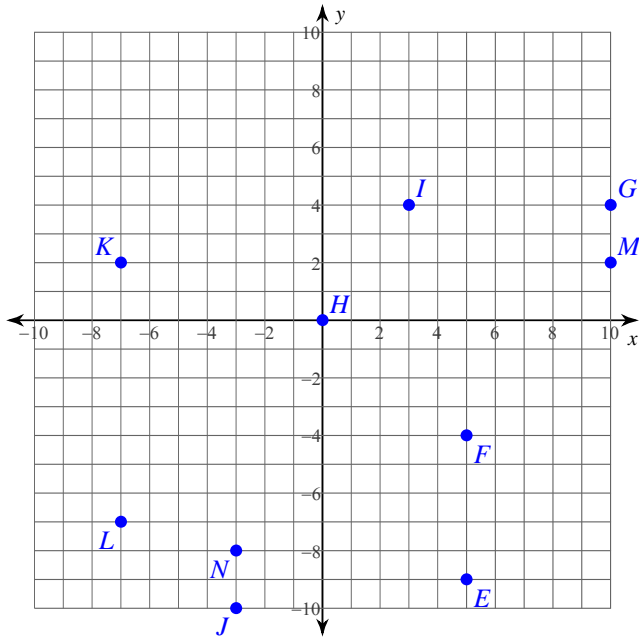   $G(-3, -4)$     $H(-4, -9)$     $I(4, 1)$
   $J(7, -9)$

**State the coordinates of each point.**

3)

4)



**State the quadrant or axis that each point lies in.**

5) $L(-2, 1)$   $K(-3, -2)$   $J(3, 1)$

6) $T(-3, 5)$   $U(1, 0)$   $V(-5, 5)$

7) $S(5, -7)$   $T(7, 2)$   $U(-5, 4)$

8) $R(7, 0)$   $Q(8, -1)$   $P(3, 0)$

**Critical thinking questions:**

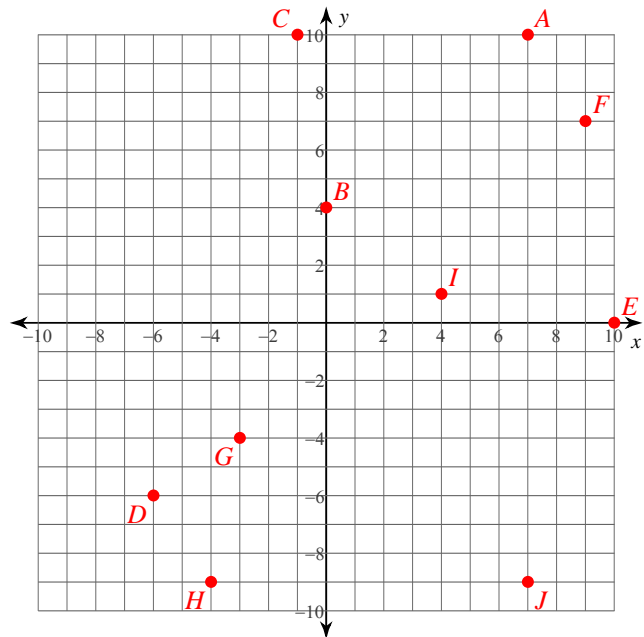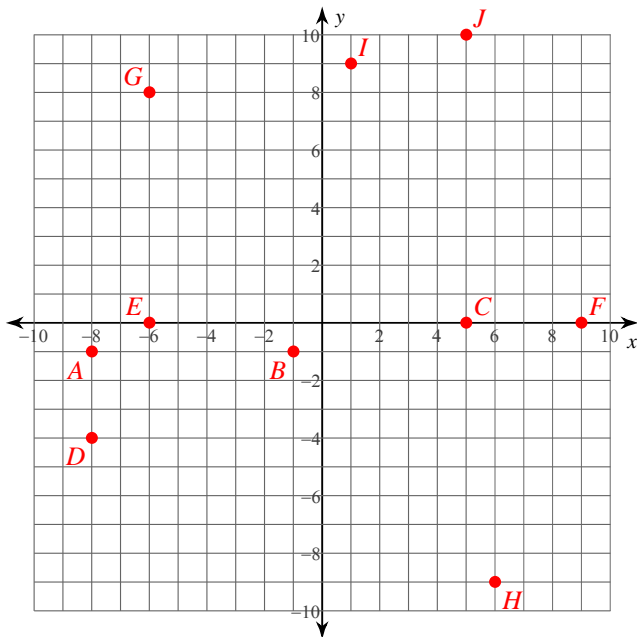9) State the coordinates of the endpoints of a line segment that intersects the $y$-axis.

10) State the coordinates of the endpoints of a line segment that is not parallel to either axis, and does not intersect either axis.

Name_____

# Points in the Coordinate Plane

Date_____ Period_____

**Plot each point.**

1) $J(5, 10)$     $I(1, 9)$     $H(6, -9)$
    $G(-6, 8)$     $F(9, 0)$     $E(-6, 0)$
    $D(-8, -4)$     $C(5, 0)$     $B(-1, -1)$
    $A(-8, -1)$
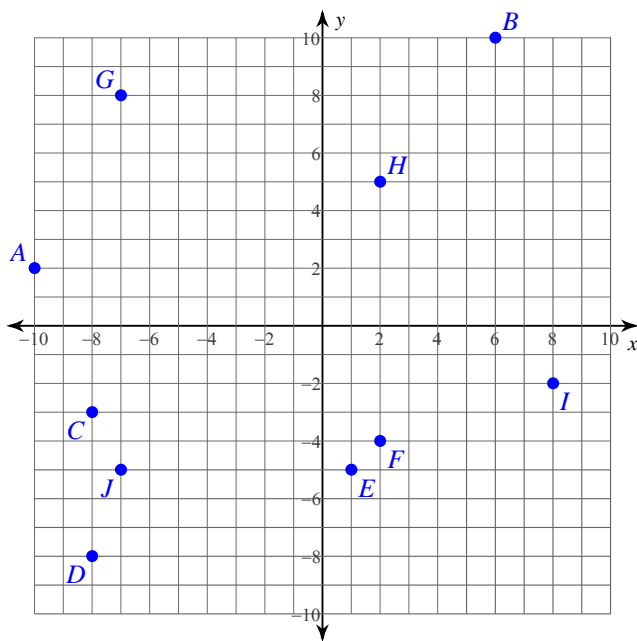
2) $A(7, 10)$     $B(0, 4)$     $C(-1, 10)$
    $D(-6, -6)$     $E(10, 0)$     $F(9, 7)$
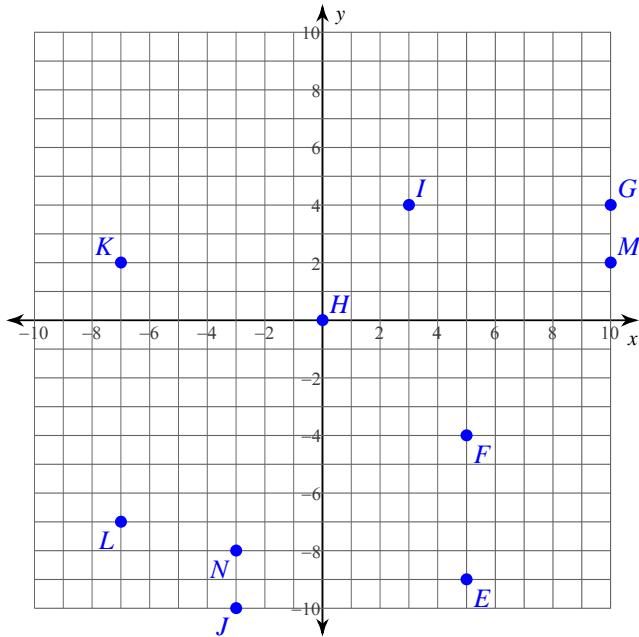    $G(-3, -4)$     $H(-4, -9)$     $I(4, 1)$
    $J(7, -9)$

**State the coordinates of each point.**

3)

$A(-10, 2)$     $B(6, 10)$     $C(-8, -3)$
$D(-8, -8)$     $E(1, -5)$     $F(2, -4)$
$G(-7, 8)$     $H(2, 5)$     $I(8, -2)$
$J(-7, -5)$

4)



$E(5, -9)$     $F(5, -4)$     $G(10, 4)$
$H(0, 0)$      $I(3, 4)$      $J(-3, -10)$
$K(-7, 2)$     $L(-7, -7)$    $M(10, 2)$
$N(-3, -8)$

**State the quadrant or axis that each point lies in.**

5) $L(-2, 1)$    $K(-3, -2)$    $J(3, 1)$

   $L$: II   $K$: III   $J$: I

6) $T(-3, 5)$    $U(1, 0)$    $V(-5, 5)$

   $T$: II   $U$: x-axis   $V$: II

7) $S(5, -7)$    $T(7, 2)$    $U(-5, 4)$

   $S$: IV   $T$: I   $U$: II

8) $R(7, 0)$    $Q(8, -1)$    $P(3, 0)$

   $R$: x-axis   $Q$: IV   $P$: x-axis

**Critical thinking questions:**

9) State the coordinates of the endpoints of a line segment that intersects the $y$-axis.

   Many answers.  Ex: $(2, 2), (-2, 2)$

10) State the coordinates of the endpoints of a line segment that is not parallel to either axis, and does not intersect either axis.

   Many answers.  Ex: $(2, 2), (3, 3)$