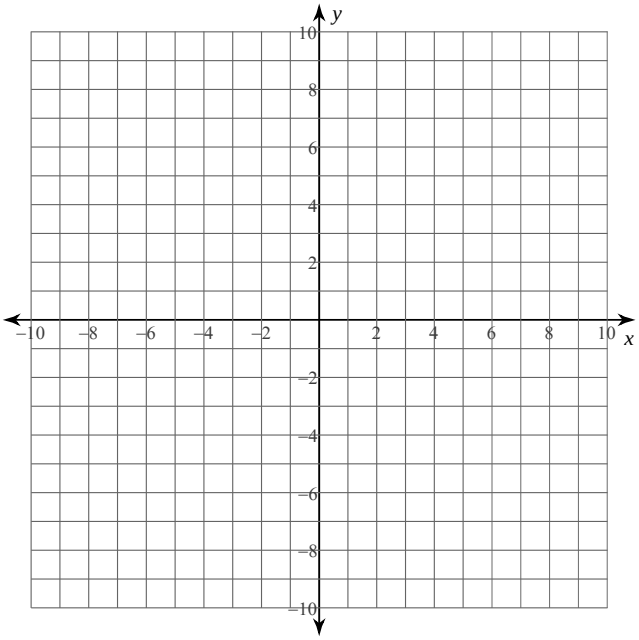
Kuta Software - Infinite Geometry Name_____

# Points in the Coordinate Plane

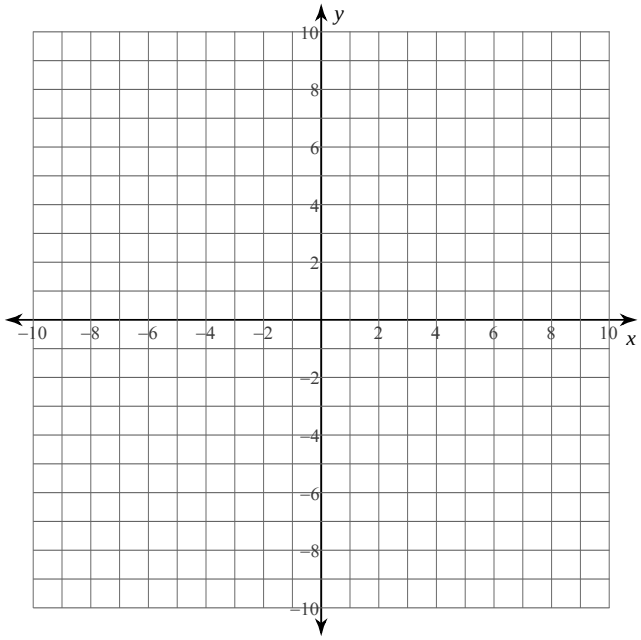
Date_____ Period____

**Plot each point.**

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

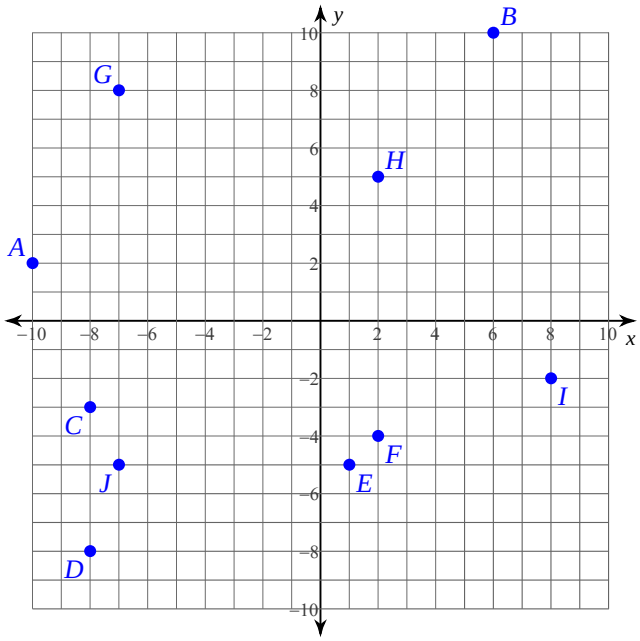



2) $A(7, 10)$ $B(0, 4)$ $C(-1, 10)$
$D(-6, -6)$ $E(10, 0)$ $F(9, 7)$
$G(-3, -4)$ $H(-4, -9)$ $I(4, 1)$
$J(7, -9)$

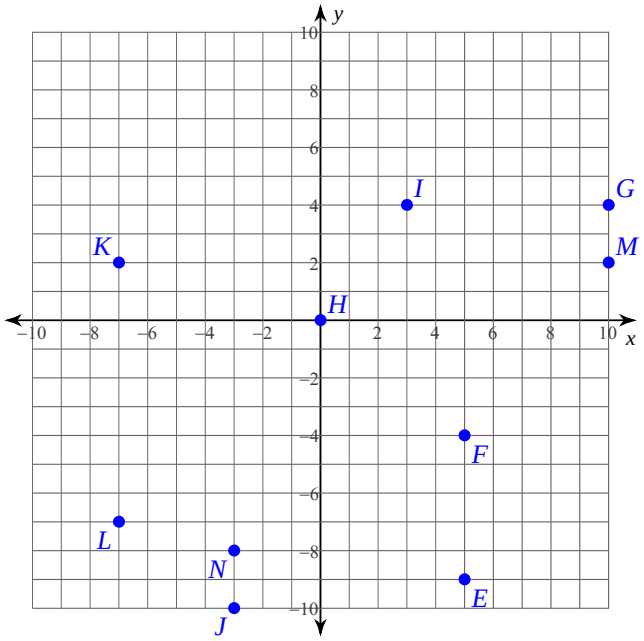



**State the coordinates of each point.**

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.

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**Plot each point.**

1) $J(5, 10)$ $I(1, 9)$ $H(6, -9)$
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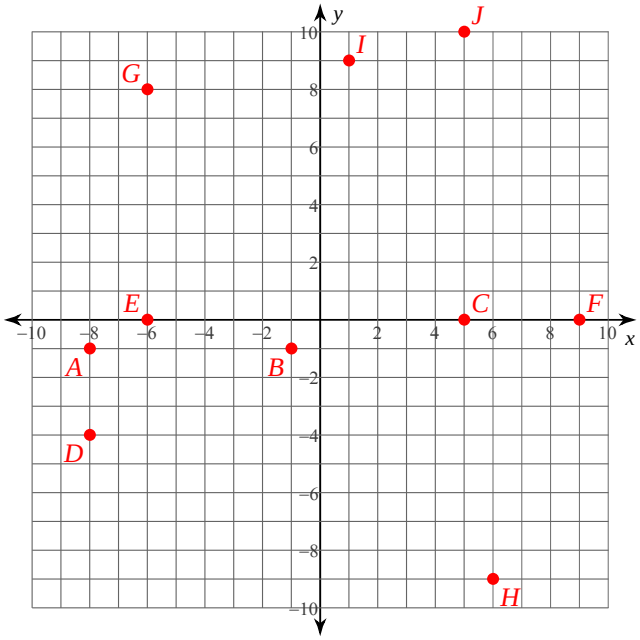
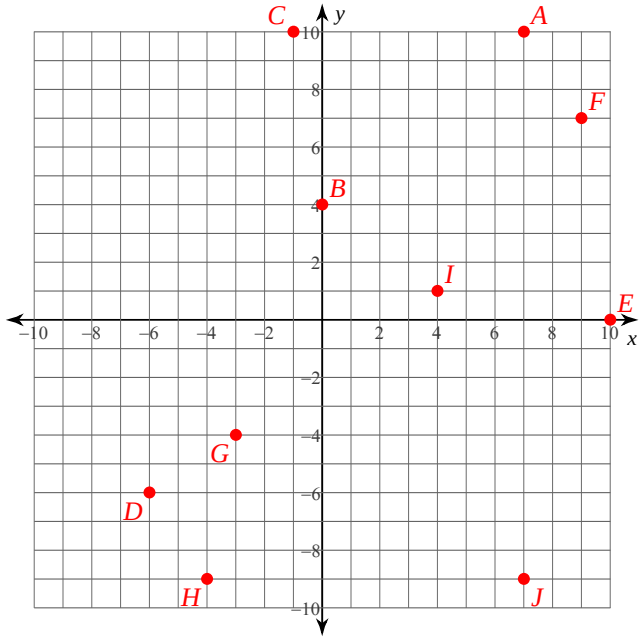
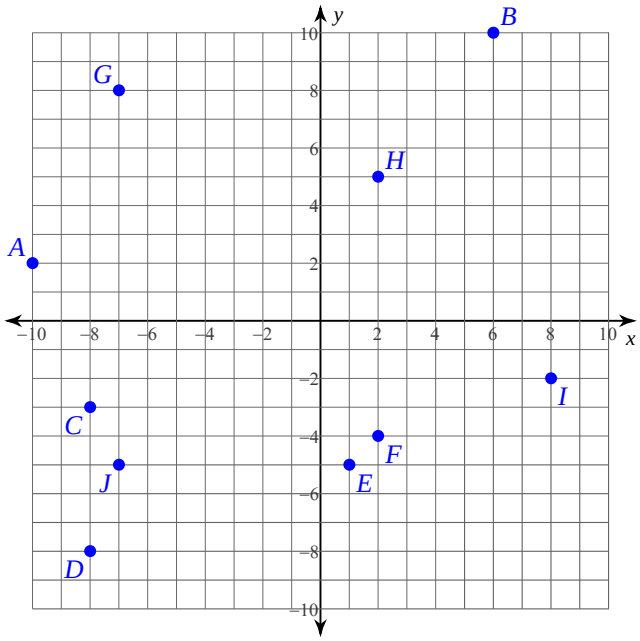



2) $A(7, 10)$ $B(0, 4)$ $C(-1, 10)$
$D(-6, -6)$ $E(10, 0)$ $F(9, 7)$
$G(-3, -4)$ $H(-4, -9)$ $I(4, 1)$
$J(7, -9)$



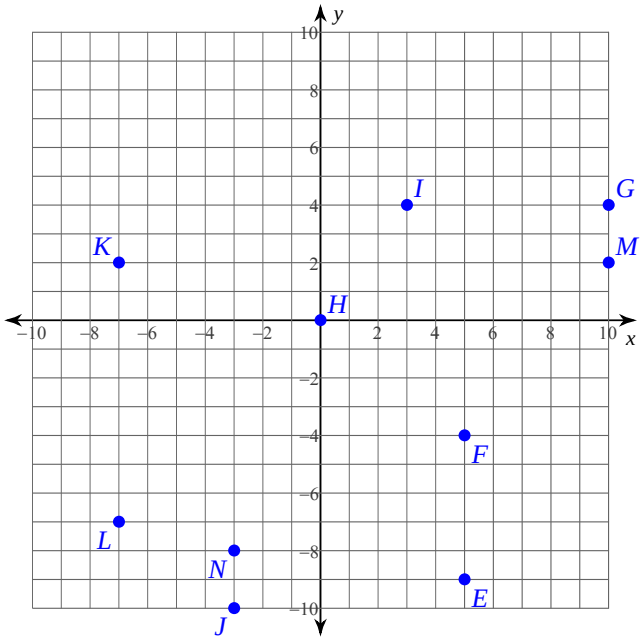

**State the coordinates of each point.**

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: $(2, 2)$, $(3, 3)$